IES INDOOR REPORT
PHOTOMETRIC FILENAME : LED-A19-10-E26-SML-4100K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTDATE] 19-Sep-2013 09:31:09
[TESTLAB] Radiant Imaging ProSource
[ISSUEDATE] 9/19/2013 1:25:24 PM
[MANUFAC] Larson Electronics
[LUMCAT] LED-A19-10-E26-SML-4100K
[LUMINAIRE] 10 Watt Omni-Drectional LED Lamp - 4100K
[_NUMBEROFRAYS]10000000

CHARACTERISTICS



Lumens Per Lamp	813.0026 (1 lamp)
Total Lamp Lumens	813.0026
Luminaire Lumens	822
Total Luminaire Efficiency	101 %
Luminaire Efficacy Rating (LER)	N.A.
Total Luminaire Watts	0
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.58
Spacing Criterion (Diagonal)	1.72
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LED-A19-10-E26-SML-4100K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	52.25	6.40	6.40
0-30	116.55	14.30	14.20
0-40	203.61	25.00	24.80
0-60	423.67	52.10	51.50
0-80	644.35	79.30	78.40
0-90	731.75	90.00	89.00
10-90	718.64	88.40	87.40
20-40	151.37	18.60	18.40
20-50	256.33	31.50	31.20
40-70	335.32	41.20	40.80
60-80	220.67	27.10	26.80
70-80	105.41	13.00	12.80
80-90	87.40	10.80	10.60
90-110	90.63	11.10	11.00
90-120	90.63	11.10	11.00
90-130	90.63	11.10	11.00
90-150	90.63	11.10	11.00
90-180	90.63	11.10	11.00
110-180	0.00	0.00	0.00
0-180	822.38	101.20	100.00

Total Luminaire Efficiency = 101.20%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13.11
10-20	39.14
20-30	64.31
30-40	87.06
40-50	104.96
50-60	115.10
60-70	115.27
70-80	105.41
80-90	87.40
90-100	66.96
100-110	23.67
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : LED-A19-10-E26-SML-4100K.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

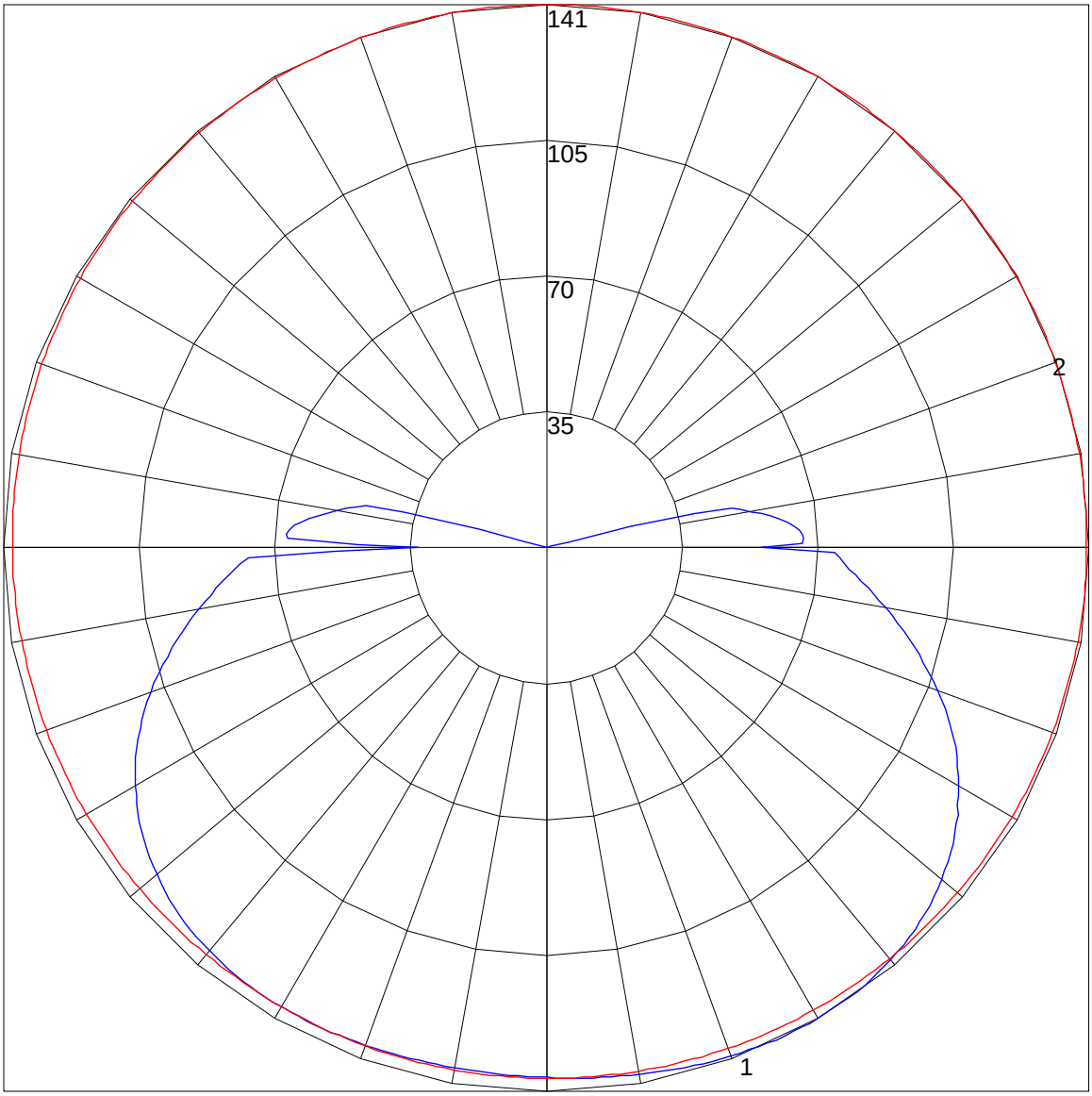
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	106	106	106	99	99	99	93	93	93	90
1	102	95	89	84	98	92	86	81	85	81	76	79	76	72	74	71	68	65
2	91	80	71	64	87	77	69	62	72	65	59	66	61	56	62	57	53	50
3	82	69	59	51	78	66	57	50	61	54	47	57	50	45	53	47	43	40
4	74	60	49	42	71	58	48	41	54	45	39	50	43	37	46	40	35	32
5	68	53	42	35	64	51	41	34	47	39	33	44	37	31	41	35	30	27
6	62	47	37	30	59	45	36	29	42	34	28	39	32	27	37	30	26	23
7	57	42	32	26	55	41	32	25	38	30	24	36	29	23	33	27	22	20
8	53	38	29	22	51	37	28	22	35	27	21	32	25	20	30	24	20	17
9	49	35	26	20	47	34	25	20	32	24	19	30	23	18	28	22	17	15
10	46	32	23	18	44	31	23	17	29	22	17	28	21	16	26	20	16	14

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LED-A19-10-E26-SML-4100K.IES

POLAR GRAPH



Maximum Candela = 140.62 Located At Horizontal Angle = 55, Vertical Angle = 29
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (29) (Through Max. Cd.)

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : LED-A19-10-E26-SML-6000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTDATE] 18-Sep-2013 18:13:05
[TESTLAB] Radiant Imaging ProSource
[ISSUEDATE] 9/18/2013 7:54:12 PM
[MANUFAC] Larson Electronics
[LUMCAT] LED-A19-10-E26-SML-6000K
[LUMINAIRE] 10 Watt Omni-Drectional LED Lamp - 6000K
[LAMP] LED
[_NUMBEROFRAYS]10000000

CHARACTERISTICS



Lumens Per Lamp	827.7935 (1 lamp)
Total Lamp Lumens	827.7935
Luminaire Lumens	828
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.56
Spacing Criterion (Diagonal)	1.72
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : LED-A19-10-E26-SML-6000K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	52.56	6.30	6.30
0-30	117.23	14.20	14.20
0-40	204.74	24.70	24.70
0-60	425.91	51.50	51.50
0-80	648.06	78.30	78.30
0-90	736.18	88.90	88.90
10-90	722.99	87.30	87.30
20-40	152.18	18.40	18.40
20-50	257.66	31.10	31.10
40-70	337.13	40.70	40.70
60-80	222.14	26.80	26.80
70-80	106.19	12.80	12.80
80-90	88.12	10.60	10.60
90-110	91.59	11.10	11.10
90-120	91.59	11.10	11.10
90-130	91.59	11.10	11.10
90-150	91.59	11.10	11.10
90-180	91.59	11.10	11.10
110-180	0.00	0.00	0.00
0-180	827.77	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13.19
10-20	39.38
20-30	64.67
30-40	87.51
40-50	105.48
50-60	115.70
60-70	115.96
70-80	106.19
80-90	88.12
90-100	67.63
100-110	23.96
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LED-A19-10-E26-SML-6000K.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

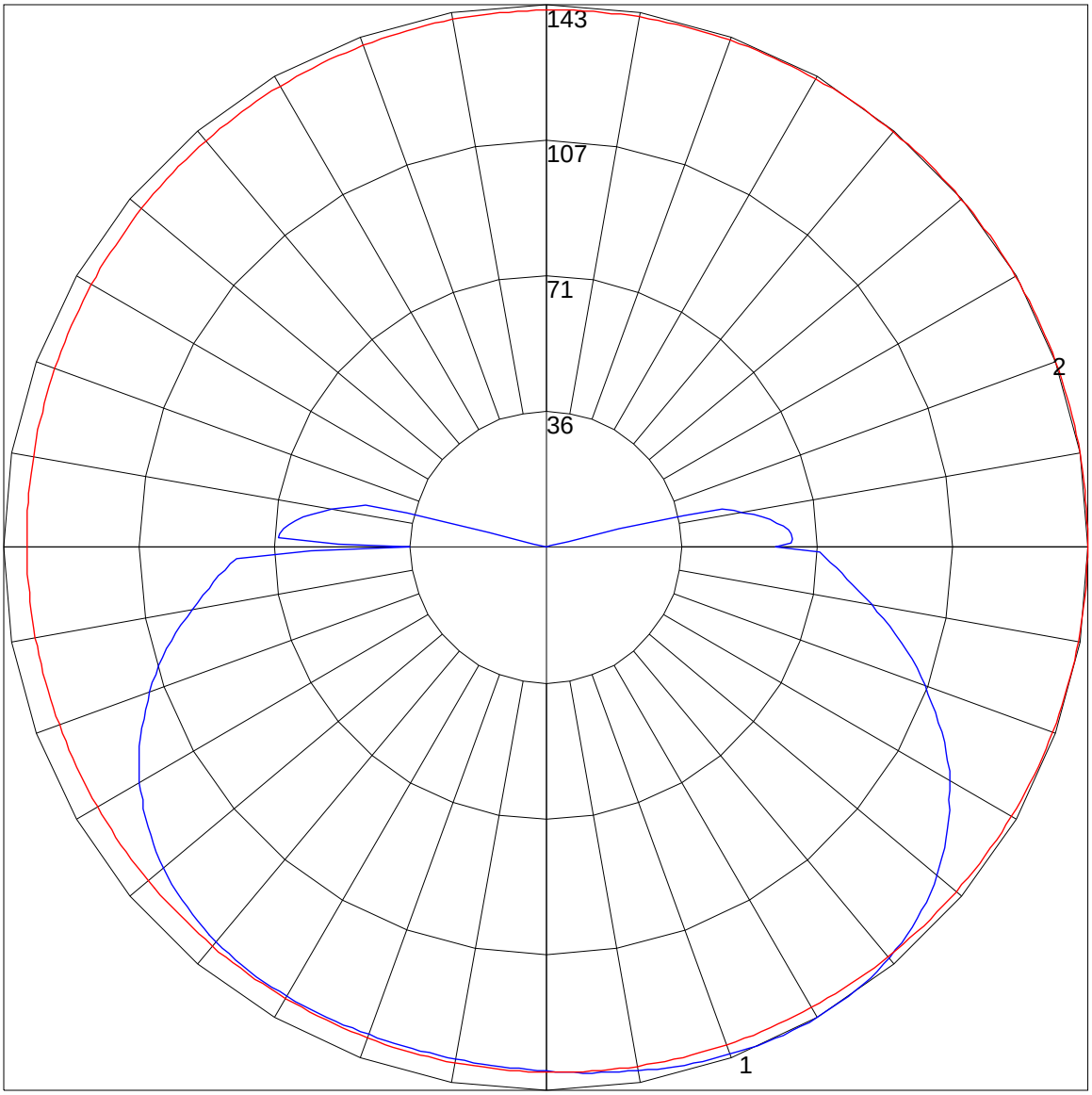
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	101	94	88	83	97	91	85	80	84	80	76	78	75	71	73	70	67	64
2	90	79	71	63	86	76	68	62	71	64	58	66	60	55	61	56	52	49
3	81	68	58	50	77	65	56	49	61	53	47	56	50	44	52	47	42	39
4	73	59	49	41	70	57	47	40	53	45	38	49	42	37	46	40	35	32
5	67	52	42	34	64	50	41	34	47	39	32	44	36	31	40	34	29	27
6	61	46	36	29	59	45	35	29	42	34	27	39	32	26	36	30	25	23
7	57	42	32	25	54	40	31	25	38	30	24	35	28	23	33	27	22	20
8	52	38	29	22	50	37	28	22	34	26	21	32	25	20	30	24	19	17
9	49	34	26	20	47	33	25	19	31	24	19	29	23	18	28	22	17	15
10	46	32	23	18	44	31	23	17	29	22	17	27	21	16	26	20	15	14

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : LED-A19-10-E26-SML-6000K.IES

POLAR GRAPH



Maximum Candela = 142.94 Located At Horizontal Angle = 16, Vertical Angle = 29
1 - Vertical Plane Through Horizontal Angles (16 - 196) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (29) (Through Max. Cd.)

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IES COMPARE REPORT
REPORT FORMAT: INDOOR REPORT

	LED-A19-10-E26-SML-6000 K.ies	Eiko 100W RS A19.ies
Lumens Per Lamp	827.7935 (1 lamp)	350.2304 (1 lamp)
Total Lamp Lumens	827.793518066406	350.230407714844
Luminaire Lumens	828	354
Total Luminaire Efficiency	100 %	101 %
Luminaire Efficacy Rating (LER)	83	4
Total Luminaire Watts	10	100
CIE Type	Semi-Direct	Semi-Direct
Ballast Factor	1.00	1.00
Spacing Criterion (0-180)	1.58	1.54
Spacing Criterion (90-270)	1.56	1.64
Spacing Criterion (Diagonal)	1.72	1.76
Luminous Shape	Point	Point
Luminous Length (0-180)	0.00 M	0.00 M
Luminous Width (90-270)	0.00 M	0.00 M
Luminous Height	0.00 M	0.00 M
Zonal Lumens 0-20	52.56	18.04
Zonal Lumens 0-30	117.23	40.27
Zonal Lumens 0-40	204.74	70.64
Zonal Lumens 0-60	425.91	151.33
Zonal Lumens 0-80	648.06	247.73
Zonal Lumens 0-90	736.18	295.86
Zonal Lumens 10-90	722.99	291.33
Zonal Lumens 20-40	152.18	52.61
Zonal Lumens 20-50	257.66	90.11
Zonal Lumens 40-70	337.13	127.83
Zonal Lumens 60-80	222.14	96.4
Zonal Lumens 70-80	106.19	49.26

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IES COMPARE REPORT
REPORT FORMAT: INDOOR REPORT

	LED-A19-10-E26-SML-6000 K.ies	Eiko 100W RS A19.ies
Zonal Lumens 80-90	88.12	48.13
Zonal Lumens 90-110	91.59	58.35
Zonal Lumens 90-120	91.59	58.35
Zonal Lumens 90-130	91.59	58.35
Zonal Lumens 90-150	91.59	58.35
Zonal Lumens 90-180	91.59	58.35
Zonal Lumens 110-180	0	0
Luminance Data 45v, 0h:	0	0
Luminance Data 55v, 0h:	0	0
Luminance Data 65v, 0h:	0	0
Luminance Data 75v, 0h:	0	0
Luminance Data 85v, 0h:	0	0
Luminance Data 45v, 45h:	0	0
Luminance Data 55v, 45h:	0	0
Luminance Data 65v, 45h:	0	0
Luminance Data 75v, 45h:	0	0
Luminance Data 85v, 45h:	0	0
Luminance Data 45v, 90h:	0	0
Luminance Data 55v, 90h:	0	0
Luminance Data 65v, 90h:	0	0
Luminance Data 75v, 90h:	0	0
Luminance Data 85v, 90h:	0	0
Zonal Lumens: 0-10	13.19	4.53
Zonal Lumens: 10-20	39.38	13.51
Zonal Lumens: 20-30	64.67	22.23
Zonal Lumens: 30-40	87.51	30.37
Zonal Lumens: 40-50	105.48	37.5

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Results derived from content of manufacturers photometric file.

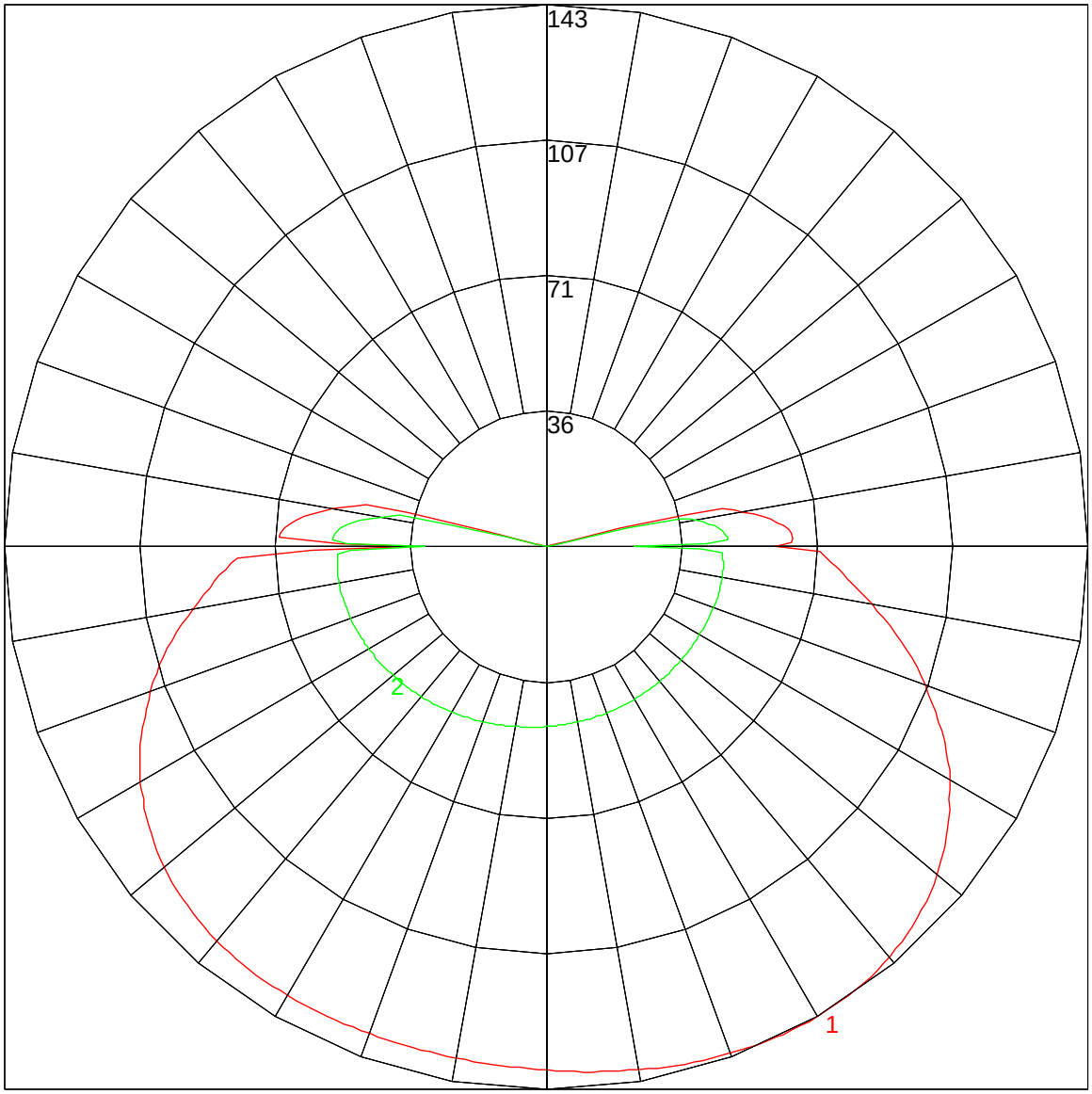
IES COMPARE REPORT
REPORT FORMAT: INDOOR REPORT

	LED-A19-10-E26-SML-6000 K.ies	Eiko 100W RS A19.ies
Zonal Lumens: 50-60	115.7	43.19
Zonal Lumens: 60-70	115.96	47.14
Zonal Lumens: 70-80	106.19	49.26
Zonal Lumens: 80-90	88.12	48.13
Zonal Lumens: 90-100	67.63	45.69
Zonal Lumens: 100-110	23.96	12.65
Zonal Lumens: 110-120	0	0
Zonal Lumens: 120-130	0	0
Zonal Lumens: 130-140	0	0
Zonal Lumens: 140-150	0	0
Zonal Lumens: 150-160	0	0
Zonal Lumens: 160-170	0	0

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IES COMPARE REPORT
REPORT FORMAT: INDOOR REPORT

CANDELA DISPLAY



1 LED-A19-10-E26-... - Vertical Plane Through Horizontal Angles (16 - 196) Max. Candela

2 Eiko 100W RS A1... - Vertical Plane Through Horizontal Angles (118 - 298) Max. Candela