



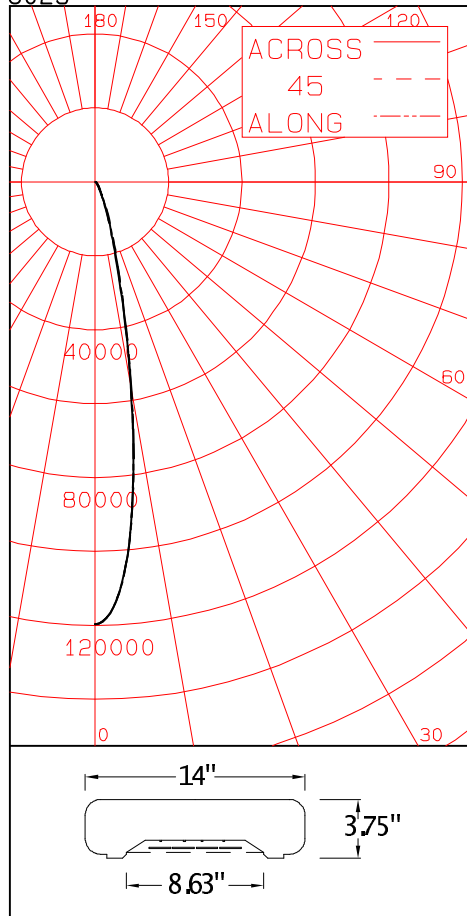
LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC G025
COMPUTED BY LSC PROGRAM **TEST-LITE**

NEMALUX LED LIGHTING LUMINAIRE CAT. NO. RSLED-CW-S-GRY-GEN-WAL-VAC
WITH INDIVIDUAL LED SPOT OPTICS (19 DEGREES) AND CLEAR OUTER LENS
48 WHITE LEDS. LUMEN OUTPUT = 20556 LMS.
MEAN WELL 100-277V LED DRIVER MODEL NO. HLG-240H-36A

G025



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	119649	119649	119649	119649	119649	
5	101648	101413	101507	101541	101474	8197
10	57028	57062	56685	56396	55905	
15	24129	24284	24405	23786	23107	7081
20	10679	11042	11554	10854	10276	
25	4983	5131	5494	5084	4829	2552
30	2730	2777	2892	2751	2677	
35	1796	1822	1843	1796	1749	1161
40	1258	1264	1264	1251	1251	
45	908	894	894	894	888	704
50	659	652	666	646	646	
55	498	491	504	484	484	448
60	404	390	390	377	390	
65	316	303	316	289	303	298
70	202	202	229	208	208	
75	101	114	94	114	108	114
80	7	20	7	13	20	
85	0	0	0	0	0	2
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	17830	86.74	86.74
0-40	18991	92.39	92.39
0-60	20142	97.99	97.99
0-90	20556	100.00	100.00
40-90	1564	7.61	7.61
60-90	413	2.01	2.01
90-180	0	.00	.00
0-180	20556	100.00	100.00

** EFFICACY = 85.5 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .3
SC = .3

ANGLE	ALONG	45	ACROSS
45	26751	26456	26257
55	18077	18392	17656
65	15583	15638	14977
75	8120	7588	8695
85	0	0	0

CERTIFIED BY:

Charles Sison

DATE:
JUL 27, 2012

PREPARED FOR:

NEMALUX LED LIGHTING
GALGARY, ALBERTA

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE
TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	119649	119649	119649	119649	119649	119649	8197
2.5	115098	114991	115145	115166	115199	115113	
5.0	101648	101413	101507	101541	101474	101505	
7.5	80397	80397	79859	80162	79920	80144	
10.0	57028	57062	56685	56396	55905	56652	7081
12.5	37330	37371	37156	36658	36006	36963	
15.0	24129	24284	24405	23786	23107	24023	
17.5	15938	16268	16617	15945	15279	16110	
20.0	10679	11042	11554	10854	10276	10982	2552
22.5	7236	7505	7989	7398	6994	7502	
25.0	4983	5131	5494	5084	4829	5154	
27.5	3584	3658	3867	3632	3484	3673	
30.0	2730	2777	2892	2751	2677	2781	1161
32.5	2186	2219	2266	2192	2132	2209	
35.0	1796	1822	1843	1796	1749	1808	
37.5	1506	1513	1513	1493	1480	1503	
40.0	1258	1264	1264	1251	1251	1258	704
42.5	1063	1063	1063	1063	1056	1062	
45.0	908	894	894	894	888	895	
47.5	773	760	773	760	753	764	
50.0	659	652	666	646	646	654	448
52.5	572	565	572	558	551	564	
55.0	498	491	504	484	484	493	
57.5	444	437	437	424	437	435	
60.0	404	390	390	377	390	388	298
62.5	363	350	343	336	350	346	
65.0	316	303	316	289	303	304	
67.5	262	242	276	249	256	256	
70.0	202	202	229	208	208	211	114
72.5	148	155	168	161	155	159	
75.0	101	114	94	114	108	107	
77.5	47	61	47	61	61	55	
80.0	7	20	7	13	20	13	2
82.5	0	0	0	0	0	0	
85.0	0	0	0	0	0	0	
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

LIGHTING SCIENCES CANADA LTD.
 160 FROBISHER DRIVE, UNIT 5
 WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC G025
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NEMALUX LED LIGHTING LUMINAIRE CAT. NO. RSLED-CW-S-GRY-GEN-WAL-VAC
 WITH INDIVIDUAL LED SPOT OPTICS (19 DEGREES) AND CLEAR OUTER LENS
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 MEAN WELL 100-277V LED DRIVER MODEL NO. HLG-240H-36A

AVERAGE LUMINANCE DATA

		CD. / SQ. M.		(FOOTLAMBERTS)			
ANGLE	ALONG	22.5	45	67.5	ACROSS		
0	2492984 (727614)	2492984 (727614)	2492984 (727614)	2492984 (727614)	2492984 (727614)		
30	65690 (19172)	67010 (19558)	69753 (20358)	66335 (19360)	64395 (18794)		
40	34205 (9983)	34479 (10063)	34420 (10046)	34114 (9956)	34022 (9929)		
45	26751 (7807)	26389 (7702)	26456 (7721)	26433 (7715)	26257 (7663)		
50	21363 (6235)	21224 (6194)	21584 (6299)	20984 (6124)	20927 (6107)		
55	18077 (5276)	17865 (5214)	18392 (5368)	17642 (5149)	17656 (5153)		
60	16814 (4907)	16310 (4760)	16270 (4748)	15734 (4592)	16254 (4744)		
65	15583 (4548)	14933 (4358)	15638 (4564)	14302 (4174)	14977 (4371)		
70	12290 (3587)	12334 (3600)	13969 (4077)	12727 (3714)	12700 (3706)		
75	8120 (2370)	9238 (2696)	7588 (2214)	9235 (2695)	8695 (2537)		
80	806 (235)	2430 (709)	810 (236)	1616 (471)	2420 (706)		
85	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)		

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	80				70				50				30				10				0
WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00		
1	1.15	1.13	1.11	1.10	1.13	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.99	.97			
2	1.11	1.08	1.05	1.03	1.10	1.06	1.04	1.02	1.03	1.01	1.00	1.01	.99	.97	.98	.97	.95	.94			
3	1.08	1.04	1.01	.98	1.07	1.03	1.00	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93	.92			
4	1.05	1.00	.97	.94	1.04	.99	.96	.93	.98	.95	.92	.96	.93	.91	.94	.92	.90	.89			
5	1.03	.97	.93	.90	1.01	.96	.93	.90	.95	.92	.89	.93	.91	.89	.92	.90	.88	.87			
6	1.00	.95	.91	.88	.99	.94	.90	.88	.92	.89	.87	.91	.89	.86	.90	.88	.86	.85			
7	.98	.92	.88	.85	.97	.91	.88	.85	.90	.87	.85	.89	.86	.84	.88	.86	.84	.83			
8	.96	.89	.86	.83	.95	.88	.85	.83	.88	.85	.83	.87	.84	.82	.86	.84	.82	.81			
9	.93	.87	.84	.81	.93	.87	.83	.81	.86	.83	.81	.85	.82	.80	.85	.82	.80	.79			
10	.91	.85	.82	.79	.90	.85	.82	.79	.84	.81	.79	.84	.81	.79	.83	.80	.78	.78			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 240.5
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 ABSOLUTE PHOTOMETRY TAKEN.