

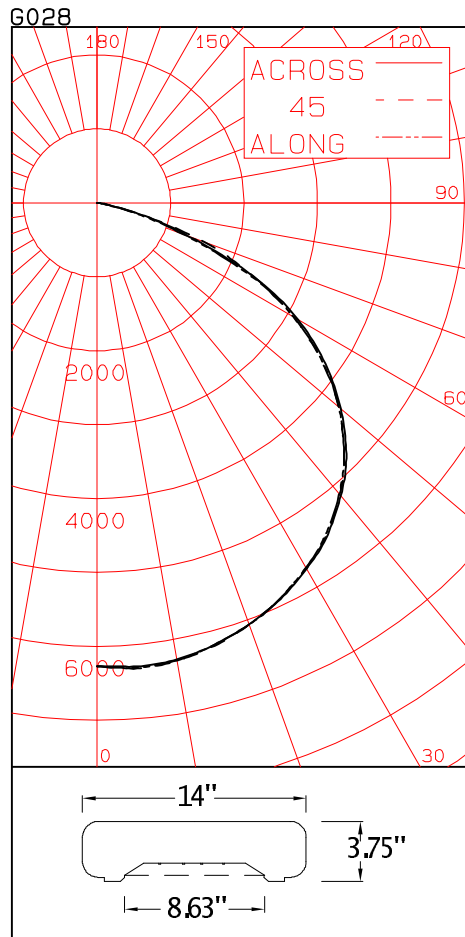


LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC G028
COMPUTED BY LSC PROGRAM **TEST-LITE**

NEMALUX LED LIGHTING LUMINAIRE CAT. NO. RSLED-CW-F-BLK-GEN-WAL-VAC
WITH CLEAR OUTER LENS
48 WHITE LEDS. LUMEN OUTPUT = 18491 LMS.
MEAN WELL 100-277V LED DRIVER MODEL NO. HLG-240H-36A



CANDLEPOWER SUMMARY

OUTPUT
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	6268	6268	6268	6268	6268	
5	6314	6298	6324	6309	6296	610
10	6285	6262	6290	6278	6269	
15	6190	6171	6200	6192	6189	1746
20	6068	6041	6068	6069	6066	
25	5903	5891	5907	5898	5911	2719
30	5696	5690	5703	5709	5713	
35	5446	5450	5464	5462	5478	3408
40	5133	5129	5144	5150	5166	
45	4757	4758	4760	4784	4801	3668
50	4296	4293	4303	4338	4333	
55	3748	3736	3739	3785	3793	3340
60	3090	3092	3095	3147	3158	
65	2250	2321	2345	2389	2339	2272
70	1249	1332	1555	1428	1337	
75	546	591	618	645	605	698
80	133	151	148	128	103	
85	2	3	3	3	2	30
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	5074	27.44	27.44
0-40	8482	45.87	45.87
0-60	15490	83.77	83.77
0-90	18491	100.00	100.00
40-90	10008	54.13	54.13
60-90	3000	16.23	16.23
90-180	0	.00	.00
0-180	18491	100.00	100.00

** EFFICACY = 75.5 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.4

SC (ALONG) = 1.3, SC (ACROSS) = 1.4

ANGLE	ALONG	45	ACROSS
45	140171	140786	141996
55	136140	136327	138328
65	110952	116028	115769
75	43961	49781	48868
85	385	773	387

CERTIFIED BY:

Charles Simon

DATE:

JUL 30, 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	6268	6268	6268	6268	6268	6268	610
2.5	6293	6277	6298	6292	6280	6288	
5.0	6314	6298	6324	6309	6296	6309	
7.5	6305	6287	6313	6303	6292	6300	
10.0	6285	6262	6290	6278	6269	6277	
12.5	6241	6219	6249	6240	6234	6236	
15.0	6190	6171	6200	6192	6189	6188	1746
17.5	6131	6108	6139	6129	6128	6126	
20.0	6068	6041	6068	6069	6066	6061	
22.5	5993	5969	5992	5996	5996	5988	2719
25.0	5903	5891	5907	5898	5911	5901	
27.5	5805	5795	5804	5810	5818	5805	
30.0	5696	5690	5703	5709	5713	5702	
32.5	5583	5583	5597	5595	5606	5592	3408
35.0	5446	5450	5464	5462	5478	5460	
37.5	5293	5292	5313	5300	5318	5303	
40.0	5133	5129	5144	5150	5166	5143	3668
42.5	4959	4957	4971	4990	5000	4974	
45.0	4757	4758	4760	4784	4801	4770	
47.5	4533	4535	4533	4571	4572	4548	
50.0	4296	4293	4303	4338	4333	4312	
52.5	4036	4025	4031	4074	4072	4046	3340
55.0	3748	3736	3739	3785	3793	3757	
57.5	3439	3426	3425	3476	3487	3448	
60.0	3090	3092	3095	3147	3158	3115	
62.5	2717	2735	2728	2791	2794	2752	2272
65.0	2250	2321	2345	2389	2339	2337	
67.5	1737	1831	1964	1901	1844	1872	
70.0	1249	1332	1555	1428	1337	1402	
72.5	876	916	1062	985	981	973	698
75.0	546	591	618	645	605	607	
77.5	292	325	322	321	299	316	
80.0	133	151	148	128	103	136	30
82.5	47	51	47	32	19	41	
85.0	2	3	3	3	2	3	
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

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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	130602 (38118)	130602 (38118)	130602 (38118)	130602 (38118)	130602 (38118)		
30	137049 (39999)	137279 (40066)	137560 (40148)	137679 (40183)	137450 (40117)		
40	139601 (40744)	139882 (40826)	140039 (40872)	140462 (40995)	140523 (41013)		
45	140171 (40911)	140366 (40967)	140786 (41090)	141397 (41268)	141996 (41443)		
50	139269 (40647)	139690 (40770)	139503 (40716)	141017 (41157)	140438 (40989)		
55	136140 (39734)	135956 (39680)	136327 (39789)	137901 (40248)	138328 (40373)		
60	128777 (37585)	129289 (37735)	129110 (37682)	131492 (38377)	131602 (38410)		
65	110952 (32383)	114533 (33428)	116028 (33864)	118145 (34482)	115769 (33789)		
70	76104 (22212)	81440 (23769)	95027 (27735)	87172 (25442)	81446 (23771)		
75	43961 (12830)	47737 (13932)	49781 (14529)	52065 (15196)	48868 (14262)		
80	16009 (4672)	18144 (5295)	17885 (5220)	15321 (4471)	12394 (3617)		
85	385 (112)	645 (188)	773 (225)	645 (188)	387 (113)		

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	80				70				50				30				10				0
	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	1.11	1.07	1.03	1.00	1.08	1.05	1.01	.98	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87			
2	1.02	.95	.89	.84	1.00	.93	.88	.83	.89	.85	.81	.86	.83	.79	.84	.80	.78	.76			
3	.93	.84	.77	.71	.91	.83	.76	.71	.80	.74	.69	.77	.72	.68	.75	.71	.67	.65			
4	.86	.75	.67	.61	.84	.74	.67	.61	.72	.65	.60	.69	.64	.59	.67	.63	.59	.57			
5	.79	.67	.59	.53	.77	.66	.58	.52	.64	.57	.52	.62	.56	.51	.60	.55	.51	.49			
6	.73	.60	.52	.46	.71	.59	.51	.45	.57	.50	.45	.56	.49	.44	.54	.48	.44	.42			
7	.67	.53	.45	.39	.65	.53	.45	.39	.51	.44	.39	.50	.43	.38	.48	.43	.38	.36			
8	.62	.48	.40	.34	.60	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.33	.32			
9	.57	.44	.36	.30	.56	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28			
10	.53	.40	.32	.26	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 244.9
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
ABSOLUTE PHOTOMETRY TAKEN.

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SUPPLEMENTARY MEASUREMENTS AS PER IES-LM-79-08

STABILIZATION TIME: 1 HOUR 45 MINUTES

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS
INPUT CURRENT: 2.055 ARMS
INPUT WATTAGE: 244.91
POWER FACTOR: 0.993

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.309
CIE 1931-y: 0.319
CORRELATED COLOUR TEMPERATURE: 6796 DEG. K
COLOUR RENDERING INDEX: 71.2%