

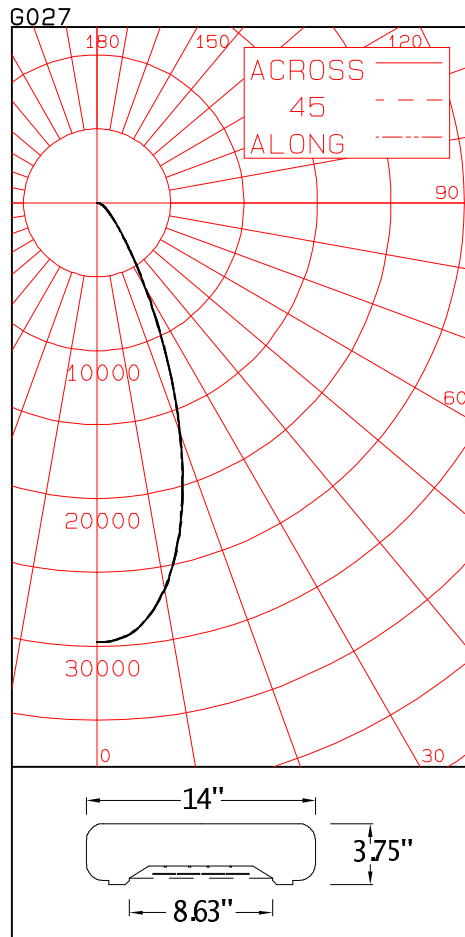


LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC G027
COMPUTED BY LSC PROGRAM **TEST-LITE**

NEMALUX LED LIGHTING LUMINAIRE CAT. NO. RSLED-CW-W-WHT-GEN-WAL-VAC
WITH INDIVIDUAL LED WIDE OPTICS (40 DEGREES) AND CLEAR OUTER LENS
48 WHITE LEDS. LUMEN OUTPUT = 18927 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	29704	29704	29704	29704	29704	
5	29043	29024	29097	29099	29069	2727
10	26470	26459	26584	26575	26530	
15	22011	22030	22168	22123	22142	6017
20	16450	16422	16538	16486	16478	
25	10814	10844	10956	10876	10863	4977
30	6501	6551	6624	6542	6490	
35	3841	3878	3945	3871	3824	2515
40	2367	2410	2451	2395	2363	
45	1571	1599	1627	1592	1560	1269
50	1102	1138	1169	1136	1102	
55	805	835	846	829	798	756
60	613	633	639	626	613	
65	454	478	480	476	458	467
70	299	321	340	325	303	
75	151	174	185	181	164	188
80	43	52	54	58	49	
85	0	0	0	0	0	10
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	13721	72.50	72.50
0-40	16236	85.79	85.79
0-60	18261	96.49	96.49
0-90	18927	100.00	100.00
40-90	2689	14.21	14.21
60-90	664	3.51	3.51
90-180	0	.00	.00
0-180	18927	100.00	100.00

** EFFICACY = 78.8 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .7
SC = .7

ANGLE	ALONG	45	ACROSS
45	46290	48122	46149
55	29237	30839	29113
65	22386	23743	22685
75	12127	14917	13216
85	0	0	0

CERTIFIED BY:

Charles Simon

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	29704	29704	29704	29704	29704	29704	2727
2.5	29577	29556	29618	29624	29590	29595	
5.0	29043	29024	29097	29099	29069	29069	
7.5	27991	27972	28019	28073	28036	28019	
10.0	26470	26459	26584	26575	26530	26529	
12.5	24423	24442	24593	24552	24537	24517	6017
15.0	22011	22030	22168	22123	22142	22099	
17.5	19316	19312	19439	19387	19407	19375	
20.0	16450	16422	16538	16486	16478	16478	
22.5	13543	13534	13644	13590	13579	13582	
25.0	10814	10844	10956	10876	10863	10879	4977
27.5	8427	8490	8559	8487	8468	8496	
30.0	6501	6551	6624	6542	6490	6553	
32.5	4993	5031	5098	5023	4967	5033	
35.0	3841	3878	3945	3871	3824	3882	
37.5	2983	3026	3084	3015	2981	3027	2515
40.0	2367	2410	2451	2395	2363	2405	
42.5	1917	1948	1982	1939	1905	1945	
45.0	1571	1599	1627	1592	1560	1596	
47.5	1306	1334	1367	1330	1300	1333	
50.0	1102	1138	1169	1136	1102	1136	1269
52.5	938	977	992	973	934	969	
55.0	805	835	846	829	798	828	
57.5	702	723	732	717	697	718	
60.0	613	633	639	626	613	628	
62.5	534	551	555	549	536	547	467
65.0	454	478	480	476	458	472	
67.5	379	398	413	398	381	397	
70.0	299	321	340	325	303	322	
72.5	224	247	263	252	230	247	
75.0	151	174	185	181	164	174	188
77.5	88	108	114	114	103	108	
80.0	43	52	54	58	49	52	
82.5	6	11	9	13	9	10	
85.0	0	0	0	0	0	0	
87.5	0	0	0	0	0	0	10
90.0	0	0	0	0	0	0	

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

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AVERAGE LUMINANCE DATA

		CD. / SQ. M.		(FOOTLAMBERTS)	
ANGLE	ALONG	22.5	45	67.5	ACROSS
0	618901(180635)	618901(180635)	618901(180635)	618901(180635)	618901(180635)
30	156413(45651)	158047(46128)	159777(46633)	157777(46049)	156154(45576)
40	64386(18792)	65730(19184)	66731(19476)	65323(19065)	64269(18757)
45	46290(13510)	47175(13768)	48122(14045)	47063(13736)	46149(13469)
50	35715(10424)	37040(10810)	37884(11057)	36933(10779)	35715(10424)
55	29237(8533)	30386(8868)	30839(9001)	30187(8810)	29113(8497)
60	25558(7459)	26456(7721)	26661(7781)	26163(7636)	25558(7459)
65	22386(6533)	23575(6880)	23743(6929)	23522(6865)	22685(6621)
70	18223(5318)	19603(5721)	20773(6063)	19838(5790)	18485(5395)
75	12127(3539)	14086(4111)	14917(4353)	14602(4262)	13216(3857)
80	5164(1507)	6221(1815)	6480(1891)	6981(2037)	5939(1733)
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	1.14	1.11	1.09	1.07	1.12	1.10	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95			
2	1.09	1.05	1.01	.98	1.07	1.03	1.00	.97	1.00	.97	.95	.97	.95	.93	.94	.93	.91	.90			
3	1.05	.99	.95	.91	1.03	.98	.94	.91	.95	.92	.89	.93	.90	.88	.91	.89	.87	.85			
4	1.00	.94	.89	.86	.99	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.84	.82	.81			
5	.96	.89	.84	.80	.95	.88	.83	.80	.86	.82	.79	.85	.81	.79	.83	.81	.78	.77			
6	.93	.85	.80	.76	.91	.84	.79	.76	.83	.79	.75	.82	.78	.75	.80	.77	.74	.73			
7	.89	.81	.76	.72	.88	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.73	.71	.69			
8	.86	.77	.72	.69	.84	.76	.72	.68	.75	.71	.68	.75	.71	.68	.74	.70	.67	.66			
9	.82	.74	.69	.65	.81	.73	.68	.65	.72	.68	.65	.71	.67	.64	.71	.67	.64	.63			
10	.79	.70	.66	.62	.78	.70	.66	.62	.69	.65	.62	.69	.65	.62	.68	.64	.61	.60			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 240.3
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
ABSOLUTE PHOTOMETRY TAKEN.