



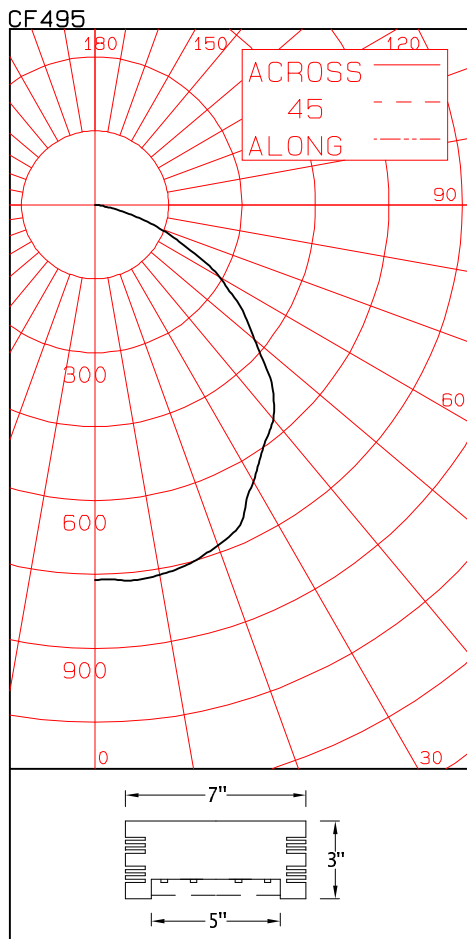
LIGHTING SCIENCES CANADA LTD.

160 Frobisher Drive, Unit 5, Waterloo, Ontario, Canada N2V 2B1
Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC F495
COMPUTED BY LSC PROGRAM **TEST-LITE**

NEMALUX LED LUMINAIRE CAT. NO. XCANLEDDC-CW-W-ALU-GEN
WITH CLEAR LENS
24 WHITE LEDS. LUMEN OUTPUT = 1996 LMS.

CANDLEPOWER SUMMARY



ANGLE	MEAN CP	LUMENS
0	761	
5	766	74
10	763	
15	753	212
20	735	
25	709	322
30	647	
35	600	377
40	567	
45	510	387
50	425	
55	364	322
60	295	
65	208	211
70	141	
75	78	82
80	24	
85	5	8
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	608	30.46	30.46
0-40	985	49.36	49.36
0-60	1694	84.89	84.89
0-90	1996	100.00	100.00
40-90	1010	50.64	50.64
60-90	301	15.11	15.11
90-180	0	.00	.00
0-180	1996	100.00	100.00

** EFFICACY = 63.6 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.3
SC = 1.3

ANGLE	MEAN CD/SQ M
45	57121
55	50316
65	38912
75	23777
85	4310

CERTIFIED BY:

Charles Simon

DATE:
JAN 26, 2012

PREPARED FOR:

NEMALUX LED LIGHTING
CALGARY, AB

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

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CANDLEPOWER DATA
IN 2.5 DEGREE STEPS

ANGLE	CANDLEPOWER	LUMENS
.0	761	
2.5	761	
5.0	766	74
7.5	765	
10.0	763	
12.5	758	
15.0	753	212
17.5	744	
20.0	735	
22.5	725	
25.0	709	322
27.5	672	
30.0	647	
32.5	622	
35.0	600	377
37.5	583	
40.0	567	
42.5	540	
45.0	510	387
47.5	465	
50.0	425	
52.5	394	
55.0	364	322
57.5	326	
60.0	295	
62.5	256	
65.0	208	211
67.5	175	
70.0	141	
72.5	106	
75.0	78	82
77.5	46	
80.0	24	
82.5	13	
85.0	5	8
87.5	2	
90.0	0	

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AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE	
0	60107	(17543)
30	59008	(17222)
40	58378	(17038)
45	57121	(16671)
50	52222	(15241)
55	50316	(14685)
60	46552	(13587)
65	38912	(11357)
70	32634	(9524)
75	23777	(6939)
80	11134	(3249)
85	4310	(1258)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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 24 WHITE LEDS. LUMEN OUTPUT = 1996 LMS.

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	.98	.95	.96	.94	.92	.93	.91	.90				.88
2	1.02	.96	.90	.85	1.00	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78				.76
3	.94	.85	.78	.72	.92	.84	.77	.72	.81	.75	.71	.78	.74	.69	.76	.72	.68				.66
4	.87	.77	.69	.63	.85	.75	.68	.63	.73	.67	.62	.71	.65	.61	.69	.64	.60				.58
5	.81	.69	.61	.55	.78	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53				.51
6	.74	.62	.54	.48	.72	.61	.53	.47	.59	.52	.47	.58	.51	.47	.56	.51	.46				.44
7	.68	.56	.47	.42	.67	.55	.47	.41	.53	.46	.41	.52	.45	.41	.51	.45	.40				.39
8	.63	.50	.42	.37	.62	.50	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36				.34
9	.59	.46	.38	.32	.57	.45	.38	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32				.30
10	.54	.42	.34	.29	.53	.41	.34	.29	.40	.33	.29	.39	.33	.28	.38	.33	.28				.27

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 31.4
 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: 2 HOURS 30 MINUTES

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 24.0 VDC
INPUT CURRENT: 1.308 ADC
INPUT WATTAGE: 31.39
POWER FACTOR: 1.00

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.310
CIE 1931-y: 0.313
CORRELATED COLOUR TEMPERATURE: 6847 DEG. K
COLOUR RENDERING INDEX: 74.7%