



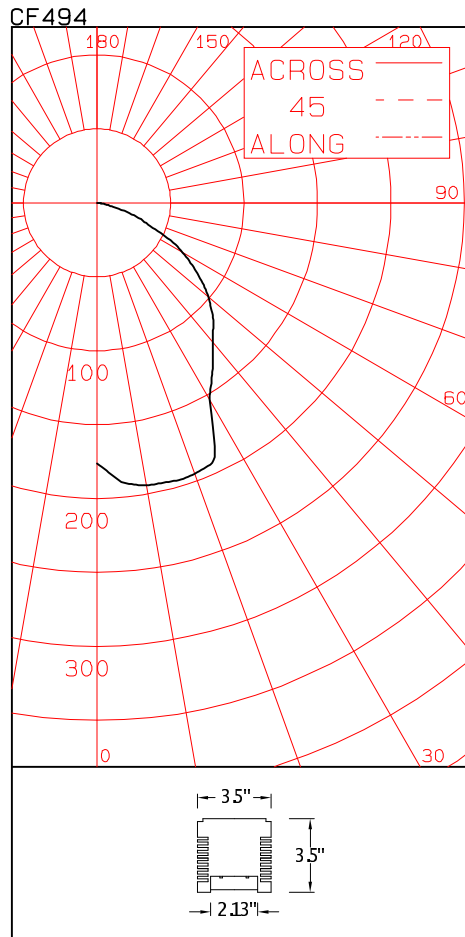
LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC F494
COMPUTED BY LSC PROGRAM **TEST-LITE**

NEMALUX LED LUMINAIRE CAT. NO. CANLEDCW-W-ALU-GEN
WITH CLEAR LENS
SIX WHITE LEDS. LUMEN OUTPUT = 469 LMS.

CANDLEPOWER SUMMARY



ANGLE	MEAN CP	LUMENS
0	176	
5	189	18
10	194	
15	195	55
20	195	
25	190	83
30	154	
35	137	86
40	123	
45	112	86
50	99	
55	83	74
60	67	
65	46	47
70	31	
75	14	17
80	5	
85	1	2
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	157	33.54	33.54
0-40	242	51.84	51.84
0-60	403	86.05	86.05
0-90	469	100.00	100.00
40-90	225	48.16	48.16
60-90	65	13.95	13.95
90-180	0	.00	.00
0-180	469	100.00	100.00

** EFFICACY = 58.8 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.3
SC = 1.3

ANGLE	MEAN CD/SQ M
45	69560
55	63850
65	47538
75	23581
85	7115

CERTIFIED BY:

Charles Lison

DATE:
JAN 26, 2012

PREPARED FOR:

NEMALUX LED LIGHTING
CALGARY, ALBERTA

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	176	
2.5	182	
5.0	189	18
7.5	192	
10.0	194	
12.5	195	
15.0	195	55
17.5	196	
20.0	195	
22.5	194	
25.0	190	83
27.5	171	
30.0	154	
32.5	145	
35.0	137	86
37.5	129	
40.0	123	
42.5	117	
45.0	112	86
47.5	105	
50.0	99	
52.5	92	
55.0	83	74
57.5	76	
60.0	67	
62.5	58	
65.0	46	47
67.5	36	
70.0	31	
72.5	23	
75.0	14	17
77.5	9	
80.0	5	
82.5	3	
85.0	1	2
87.5	1	
90.0	0	

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AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE	
0	77078	(22496)
30	77651	(22663)
40	70085	(20455)
45	69560	(20302)
50	67198	(19612)
55	63850	(18635)
60	58856	(17178)
65	47538	(13874)
70	39503	(11529)
75	23581	(6882)
80	13203	(3853)
85	7115	(2076)

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	1.04	1.00	1.08	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88			
2	1.03	.96	.91	.86	1.01	.94	.89	.85	.91	.87	.83	.88	.84	.81	.85	.82	.79	.77			
3	.95	.86	.79	.74	.93	.84	.78	.73	.82	.76	.72	.79	.75	.71	.77	.73	.69	.68			
4	.88	.78	.70	.64	.86	.77	.70	.64	.74	.68	.63	.72	.67	.62	.70	.65	.62	.60			
5	.81	.70	.62	.56	.79	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52			
6	.75	.63	.55	.50	.73	.62	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.46			
7	.69	.57	.49	.44	.68	.56	.49	.43	.55	.48	.43	.53	.47	.42	.52	.47	.42	.40			
8	.65	.52	.44	.39	.63	.51	.44	.38	.50	.43	.38	.49	.43	.38	.48	.42	.38	.36			
9	.60	.48	.40	.34	.59	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.32			
10	.56	.43	.36	.31	.55	.43	.36	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.29			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 8.0
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: 24.0 VDC
INPUT CURRENT: 0.332 ADC
INPUT WATTAGE: 7.97
POWER FACTOR: 1.000

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.307
CIE 1931-y: 0.309
CORRELATED COLOUR TEMPERATURE: 7087 DEG. K
COLOUR RENDERING INDEX: 74.7%