



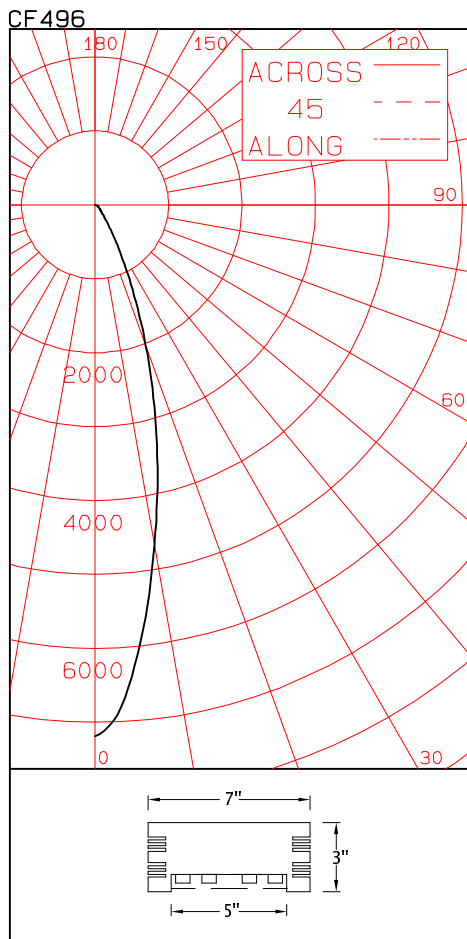
LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC F496
COMPUTED BY LSC PROGRAM **TEST-LITE**

NEMALUX LED LUMINAIRE CAT. NO. XCANLEDDC-CW-N-ALU-GEN
WITH INDIVIDUAL LED OPTICS AND CLEAR LENS
24 WHITE LEDS. LUMEN OUTPUT = 2334 LMS.

CANDLEPOWER SUMMARY



ANGLE	MEAN CP	LUMENS
0	7185	
5	6249	549
10	4674	
15	3235	882
20	2027	
25	1101	516
30	537	
35	272	183
40	156	
45	107	85
50	83	
55	69	61
60	56	
65	42	41
70	28	
75	14	15
80	3	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1947	83.45	83.45
0-40	2130	91.27	91.27
0-60	2277	97.57	97.57
0-90	2334	100.00	100.00
40-90	203	8.73	8.73
60-90	56	2.43	2.43
90-180	0	.00	.00
0-180	2334	100.00	100.00

** EFFICACY = 74.6 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .5
SC = .5

ANGLE	MEAN CD/SQ M
45	11975
55	9476
65	7868
75	4262
85	0

CERTIFIED BY:

Charles Simon

DATE:
JAN 27, 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	7185	
2.5	6908	
5.0	6249	549
7.5	5466	
10.0	4674	
12.5	3924	
15.0	3235	882
17.5	2603	
20.0	2027	
22.5	1520	
25.0	1101	516
27.5	774	
30.0	537	
32.5	378	
35.0	272	183
37.5	202	
40.0	156	
42.5	127	
45.0	107	85
47.5	93	
50.0	83	
52.5	75	
55.0	69	61
57.5	62	
60.0	56	
62.5	49	
65.0	42	41
67.5	35	
70.0	28	
72.5	21	
75.0	14	15
77.5	8	
80.0	3	
82.5	0	
85.0	0	0
87.5	0	
90.0	0	

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AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE	
0	567165	(165535)
30	48991	(14298)
40	16126	(4706)
45	11975	(3495)
50	10224	(2984)
55	9476	(2765)
60	8791	(2565)
65	7868	(2296)
70	6410	(1871)
75	4262	(1243)
80	1314	(383)
85	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 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	1.15	1.12	1.10	1.09	1.12	1.11	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.98	.96		
2	1.11	1.07	1.04	1.01	1.09	1.05	1.02	1.00	1.02	1.00	.98	.99	.97	.96	.97	.95	.94	.94	.92		
3	1.07	1.02	.98	.95	1.05	1.01	.98	.95	.99	.96	.93	.96	.94	.92	.94	.92	.91	.89	.89		
4	1.04	.98	.94	.91	1.02	.97	.94	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86	.86		
5	1.00	.94	.90	.87	.99	.93	.89	.86	.91	.88	.86	.90	.87	.85	.89	.86	.84	.83	.83		
6	.97	.91	.87	.84	.96	.90	.86	.83	.89	.85	.83	.88	.84	.82	.86	.84	.82	.81	.81		
7	.94	.88	.83	.80	.93	.87	.83	.80	.86	.82	.80	.85	.81	.79	.84	.81	.79	.78	.78		
8	.92	.85	.80	.77	.91	.84	.80	.77	.83	.79	.77	.82	.79	.77	.81	.78	.76	.75	.75		
9	.89	.82	.78	.75	.88	.81	.78	.75	.81	.77	.74	.80	.76	.74	.79	.76	.74	.73	.73		
10	.86	.79	.75	.72	.85	.79	.75	.72	.78	.75	.72	.78	.74	.72	.77	.74	.72	.71	.71		

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 31.3
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
ABSOLUTE PHOTOMETRY TAKEN.

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SUPPLEMENTARY MEASUREMENTS

STABILIZATION TIME: 2 HOURS 30 MINUTES

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 24.0 VDC
INPUT CURRENT: 1.304 ADC
INPUT WATTAGE: 31.30
POWER FACTOR: 1.00