



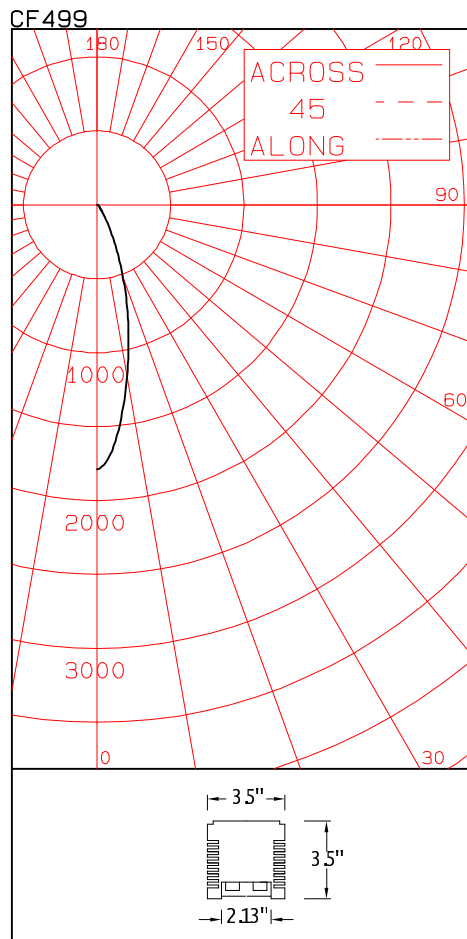
LIGHTING SCIENCES CANADA LTD.

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 F499
COMPUTED BY LSC PROGRAM **TEST-LITE**

NEMALUX LED LUMINAIRE CAT. NO. CANLED-CW-N-ALU-GEN
WITH INDIVIDUAL LED LENS OPTICS
SIX WHITE LEDS. LUMEN OUTPUT = 587 LMS.

CANDLEPOWER SUMMARY



ANGLE	MEAN CP	LUMENS
0	1790	
5	1566	138
10	1178	
15	820	223
20	516	
25	280	131
30	137	
35	70	47
40	40	
45	27	21
50	20	
55	16	14
60	13	
65	9	9
70	6	
75	2	3
80	0	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	492	83.96	83.96
0-40	539	91.93	91.93
0-60	575	97.98	97.98
0-90	587	100.00	100.00
40-90	47	8.07	8.07
60-90	11	2.02	2.02
90-180	0	.00	.00
0-180	587	100.00	100.00

** EFFICACY = 76.6 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .5
SC = .5

ANGLE	MEAN CD/SQ M
45	16564
55	12036
65	9494
75	4103
85	0

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	1790	
2.5	1721	
5.0	1566	138
7.5	1375	
10.0	1178	
12.5	991	
15.0	820	223
17.5	661	
20.0	516	
22.5	387	
25.0	280	131
27.5	197	
30.0	137	
32.5	97	
35.0	70	47
37.5	52	
40.0	40	
42.5	32	
45.0	27	21
47.5	23	
50.0	20	
52.5	18	
55.0	16	14
57.5	14	
60.0	13	
62.5	11	
65.0	9	9
67.5	7	
70.0	6	
72.5	4	
75.0	2	3
77.5	1	
80.0	0	
82.5	0	
85.0	0	0
87.5	0	
90.0	0	

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AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE	
0	782328	(228334)
30	69131	(20176)
40	22598	(6595)
45	16564	(4834)
50	13717	(4003)
55	12036	(3512)
60	10933	(3191)
65	9494	(2771)
70	7390	(2156)
75	4103	(1197)
80	338	(98)
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	1.11	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		.96	
2	1.11	1.07	1.04	1.01	1.09	1.05	1.02	1.00	1.02	1.00	.98	.99	.98	.96	.97	.95	.94		.93		
3	1.07	1.02	.99	.96	1.05	1.01	.98	.95	.99	.96	.94	.96	.94	.92	.94	.93	.91		.90		
4	1.04	.98	.94	.91	1.02	.97	.94	.91	.95	.92	.90	.93	.91	.89	.92	.90	.88		.86		
5	1.00	.94	.90	.87	.99	.93	.89	.87	.92	.88	.86	.90	.87	.85	.89	.87	.84		.83		
6	.98	.91	.87	.84	.96	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82		.81		
7	.94	.88	.84	.81	.93	.87	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79		.78		
8	.92	.85	.81	.78	.91	.84	.80	.77	.83	.80	.77	.83	.79	.77	.82	.79	.77		.76		
9	.89	.82	.78	.75	.88	.82	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74		.73		
10	.87	.80	.76	.73	.86	.79	.76	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72		.71		

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 7.7
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
ABSOLUTE PHOTOMETRY TAKEN.

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SUPPLEMENTARY MEASUREMENTS

STABILIZATION TIME: 1 HOUR 30 MINUTES

ELECTRICAL CONSUMPTION

INPUT VOLTAGE:	24.0 VDC
INPUT CURRENT:	0.319 ADC
INPUT WATTAGE:	7.66
POWER FACTOR:	1.000