

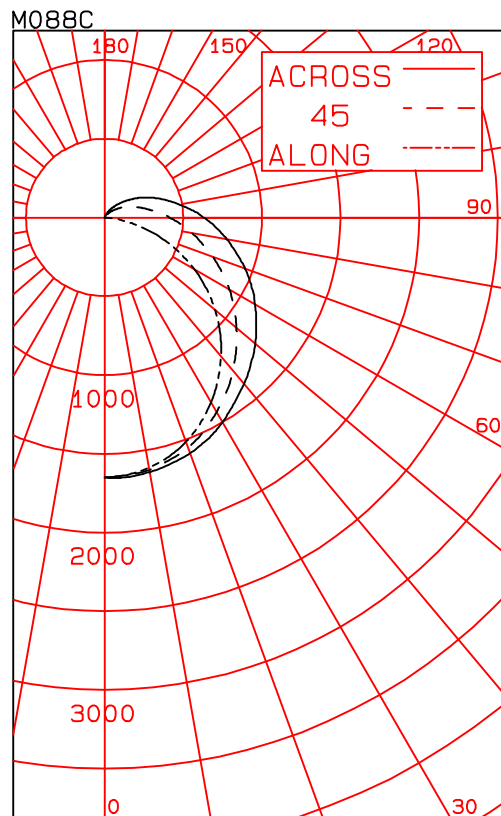


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TEST REPORT NO. M088C
 ACCREDITED BY NVLAP (LAB CODE 500084-0) TO ISO/IES 17025:2005 FOR IES LM-79-08
 CUSTOM LIGHTING 4' LED STRIP LUMINAIRE CAT. NO. CL-LSTRIP-PFW-41-40K8000-120-WA
 WITH WHITE REFLECTOR AND CURVED ACRYLIC LENS
 ONE PHILIPS FORTIMO LED STRIP WITH 144 LEDS. LUMEN OUTPUT = 6739 LMS.
 PHILIPS ADVANCE XITANIUM 120-277V LED DRIVER MODEL XI054C150V054BST1



CANDLEPOWER SUMMARY							OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS		
0	1651	1651	1651	1651	1651		
5	1640	1647	1641	1648	1655	159	
15	1572	1588	1595	1608	1621	450	
25	1441	1462	1496	1533	1553	689	
35	1258	1289	1352	1413	1439	844	
45	1038	1085	1184	1280	1315	911	
55	793	866	1007	1132	1178	891	
65	524	637	823	976	1031	795	
75	251	422	646	812	869	645	
85	35	249	486	654	710	482	
90	0	183	413	576	632		
95	0	133	348	502	555	345	
105	0	71	240	371	417	236	
115	0	35	157	262	300	151	
125	0	13	95	172	200	86	
135	0	0	47	100	119	41	
145	0	0	12	43	55	14	
155	0	0	0	4	10	2	
165	0	0	0	0	0	0	
175	0	0	0	0	0	0	
180	0	0	0	0	0	0	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1297	19.26	19.26
0-40	2141	31.78	31.78
0-60	3944	58.52	58.52
0-90	5865	87.04	87.04
40-90	3723	55.25	55.25
60-90	1921	28.51	28.51
90-180	873	12.96	12.96
0-180	6739	100.00	100.00

** EFFICACY = 122 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.4

SC(ALONG) = 1.2, SC(ACROSS) = 1.4

ANGLE	ALONG	45	ACROSS
45	18033	15626	15766
55	16974	14838	15351
65	15217	14211	15226
75	11890	13945	15355
85	4863	14701	16215

DATE:

FEB 6, 2018

PREPARED FOR:

CUSTOM LIGHTING
 EDMONTON, ALBERTA

TESTED ACCORDING TO IES LM-79-2008 SEC. 10. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE

LUMENTRA, INC.
 160 FROBISHER DRIVE, UNIT 5
 WATERLOO, ONTARIO

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 COMPUTED BY LSC PROGRAM **TEST-LITE**

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CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	1651	1651	1651	1651	1651	1651	
5	1640	1647	1641	1648	1655	1646	159
10	1614	1623	1628	1635	1642	1628	
15	1572	1588	1595	1608	1621	1597	450
20	1515	1533	1552	1577	1591	1554	
25	1441	1462	1496	1533	1553	1497	689
30	1354	1379	1425	1476	1501	1427	
35	1258	1289	1352	1413	1439	1350	844
40	1151	1189	1269	1349	1381	1268	
45	1038	1085	1184	1280	1315	1181	911
50	918	976	1095	1205	1251	1090	
55	793	866	1007	1132	1178	997	891
60	661	753	916	1056	1105	902	
65	524	637	823	976	1031	803	795
70	386	527	734	895	952	706	
75	251	422	646	812	869	610	645
80	130	328	563	731	789	520	
85	35	249	486	654	710	440	482
90	0	183	413	576	632	372	
95	0	133	348	502	555	315	345
100	0	97	288	432	482	264	
105	0	71	240	371	417	222	236
110	0	51	196	315	357	185	
115	0	35	157	262	300	151	151
120	0	23	124	215	248	121	
125	0	13	95	172	200	95	86
130	0	4	70	133	157	71	
135	0	0	47	100	119	51	41
140	0	0	27	69	85	35	
145	0	0	12	43	55	21	14
150	0	0	1	21	30	9	
155	0	0	0	4	10	2	2
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			ACROSS
		22.5	45	67.5	
0	20277(5918)	20277(5918)	20277(5918)	20277(5918)	20277(5918)
30	19207(5605)	17827(5203)	17095(4989)	16886(4928)	16860(4921)
40	18458(5387)	16675(4867)	16037(4680)	16033(4679)	16026(4677)
45	18033(5263)	16078(4692)	15626(4560)	15702(4582)	15766(4601)
50	17544(5120)	15500(4524)	15134(4417)	15389(4491)	15508(4526)
55	16974(4954)	14875(4341)	14838(4330)	15195(4435)	15351(4480)
60	16228(4736)	14267(4164)	14472(4224)	15050(4392)	15190(4433)
65	15217(4441)	13498(3939)	14211(4147)	14968(4368)	15226(4444)
70	13846(4041)	12841(3747)	14042(4098)	14956(4365)	15205(4437)
75	11890(3470)	12192(3558)	13945(4070)	15056(4394)	15355(4481)
80	9161(2674)	11725(3422)	14162(4133)	15311(4468)	15591(4550)
85	4863(1419)	11759(3432)	14701(4290)	15941(4652)	16215(4732)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

LUMENTRA, INC.
 160 FROBISHER DRIVE, UNIT 5
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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	1.16	1.16	1.16	1.16	1.12	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.90	.90	.90	.87			
1	1.04	.98	.93	.88	1.00	.95	.90	.86	.88	.84	.81	.82	.79	.76	.76	.74	.71	.68			
2	.94	.85	.77	.71	.90	.82	.75	.69	.76	.70	.66	.71	.66	.62	.66	.62	.59	.56			
3	.85	.74	.65	.58	.81	.71	.63	.57	.67	.60	.54	.62	.57	.52	.58	.53	.49	.47			
4	.78	.66	.57	.50	.75	.64	.55	.49	.59	.52	.47	.55	.49	.45	.52	.47	.43	.40			
5	.72	.58	.49	.42	.68	.56	.48	.41	.53	.45	.40	.49	.43	.38	.46	.41	.37	.34			
6	.66	.52	.43	.36	.63	.50	.42	.36	.47	.40	.34	.44	.38	.33	.42	.36	.32	.29			
7	.60	.46	.38	.32	.58	.45	.37	.31	.42	.35	.30	.40	.33	.28	.37	.32	.27	.25			
8	.56	.42	.34	.27	.54	.41	.33	.27	.38	.31	.26	.36	.30	.25	.34	.28	.24	.22			
9	.52	.38	.30	.24	.50	.37	.29	.24	.35	.28	.23	.33	.27	.22	.31	.25	.21	.19			
10	.48	.35	.27	.21	.46	.34	.26	.21	.32	.25	.20	.30	.24	.19	.28	.23	.19	.17			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 55.2
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 ABSOLUTE PHOTOMETRY TAKEN.

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AMBIENT TEMPERATURE: 24.8 °C
STABILIZATION TIME: 45 MINUTES
THE LUMINAIRE WAS OPERATED IN THE ORIENTATION INDICATED BY THE PICTURES BELOW
LSI MOVING MIRROR GONIOPHOTOMETER 6240T WAS USED

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS
INPUT CURRENT: 0.463 ARMS
INPUT WATTAGE: 55.23
POWER FACTOR: 0.994



Prepared By:



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Approved By:



Charles Sisson
Senior Technologist

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