



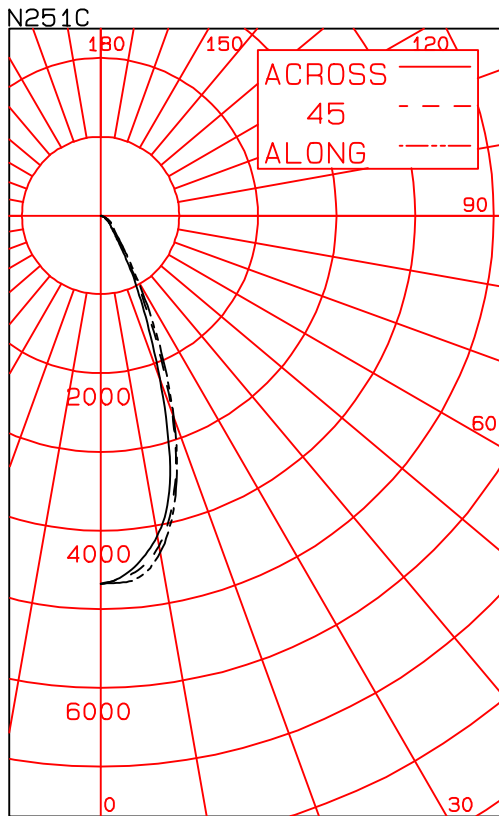
60 St. George Street, Suite 331
 Toronto, Ontario, M5S 1A7
 (647) 479-8820
 email: services@lumentra.com

160 Frobisher Drive, Unit 5
 Waterloo, Ontario, N2V 2B1
 (647) 479-7820
 http://lumentra.com



TEST REPORT NO. N251C
 ACCREDITED BY NVLAP (LAB CODE 500084-0) TO ISO/IES 17025:2017 FOR IES LM-79-19

MPS COMPANY LED INDOOR LUMINAIRE CAT. NO. W/B 14-02-#7
 WITH INDIVIDUAL LED LENS OPTICS (COMMERCIAL)
 30 WHITE LEDS. LUMEN OUTPUT = 2761 LMS.
 MEAN WELL 100-277V LED DRIVER MODEL HLG-40H-48A



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	4677	4677	4677	4677	4677	
5	4655	4622	4571	4517	4514	432
15	3682	3642	3626	3544	3417	965
25	1708	1666	1536	1330	1265	698
35	505	514	454	392	365	298
45	238	224	210	189	181	164
55	157	134	130	117	103	114
65	89	74	64	57	51	65
75	36	28	16	14	10	22
85	4	2	1	1	1	2
90	0	0	0	0	0	
95	0	0	0	0	0	0
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	2094	75.87	75.87
0-40	2392	86.65	86.65
0-60	2670	96.74	96.74
0-90	2761	100.00	100.00
40-90	368	13.35	13.35
60-90	90	3.26	3.26
90-180	0	.00	.00
0-180	2761	100.00	100.00

** EFFICACY = 72.5 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .6

SC(ALONG) = .7, SC(ACROSS) = .6

ANGLE	ALONG	45	ACROSS
45	4881	4313	3726
55	3957	3286	2614
65	3054	2186	1739
75	1989	869	562
85	582	83	83

DATE:
 AUG 7, 2020

PREPARED FOR:
 MPS COMPANY INC.
 TORONTO, ONTARIO

TESTED ACCORDING TO IES LM-79-2019 SEC. 10. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE

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

TEST REPORT NO. N251C
 COMPUTED BY LSC PROGRAM **TEST-LITE**

MPS COMPANY LED INDOOR LUMINAIRE CAT. NO. W/B 14-02-#7
 WITH INDIVIDUAL LED LENS OPTICS (COMMERCIAL)
 30 WHITE LEDS. LUMEN OUTPUT = 2761 LMS.
 MEAN WELL 100-277V LED DRIVER MODEL HLG-40H-48A

CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	4677	4677	4677	4677	4677	4677	
5	4655	4622	4571	4517	4514	4573	432
10	4347	4308	4262	4194	4132	4251	
15	3682	3642	3626	3544	3417	3590	965
20	2724	2662	2657	2368	2204	2538	
25	1708	1666	1536	1330	1265	1504	698
30	937	924	806	720	685	815	
35	505	514	454	392	365	449	298
40	315	323	296	251	238	286	
45	238	224	210	189	181	208	164
50	195	172	163	153	145	164	
55	157	134	130	117	103	127	114
60	121	102	103	79	73	95	
65	89	74	64	57	51	66	65
70	62	52	38	27	26	40	
75	36	28	16	14	10	20	22
80	16	8	5	6	6	7	
85	4	2	1	1	1	1	2
90	0	0	0	0	0	0	
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
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	

LUMENTRA, INC.
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MPS COMPANY LED INDOOR LUMINAIRE CAT. NO. W/B 14-02-#7
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 MEAN WELL 100-277V LED DRIVER MODEL HLG-40H-48A

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			ACROSS
		22.5	45	67.5	
0	67827(19796)	67827(19796)	67827(19796)	67827(19796)	67827(19796)
30	15683(4577)	15508(4526)	13524(3947)	12086(3527)	11462(3345)
40	5954(1737)	6121(1786)	5599(1634)	4755(1387)	4505(1315)
45	4881(1424)	4600(1342)	4313(1258)	3887(1134)	3726(1087)
50	4388(1280)	3884(1133)	3678(1073)	3450(1007)	3271(954)
55	3957(1154)	3381(986)	3286(959)	2954(862)	2614(763)
60	3509(1024)	2954(862)	2976(868)	2282(666)	2102(613)
65	3054(891)	2541(741)	2186(638)	1945(567)	1739(507)
70	2607(761)	2212(645)	1616(471)	1126(328)	1081(315)
75	1989(580)	1574(459)	869(253)	759(221)	562(164)
80	1294(377)	670(195)	377(110)	460(134)	459(134)
85	582(169)	250(73)	83(24)	83(24)	83(24)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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

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MPS COMPANY LED INDOOR LUMINAIRE CAT. NO. W/B 14-02-#7
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 MEAN WELL 100-277V LED DRIVER MODEL HLG-40H-48A

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	1.06	1.02	1.02	1.02	1.02	1.00
1	1.14	1.12	1.10	1.07	1.12	1.10	1.08	1.06	1.05	1.04	1.03	1.02	1.02	1.01	.99	.98	.98	.97	.97	.97	.95
2	1.09	1.05	1.02	.99	1.08	1.04	1.00	.98	1.00	.98	.96	.98	.96	.94	.95	.93	.92	.92	.90		
3	1.05	1.00	.96	.92	1.03	.98	.95	.92	.96	.93	.90	.94	.91	.89	.92	.90	.88	.88	.86		
4	1.01	.95	.91	.87	1.00	.94	.90	.86	.92	.88	.85	.90	.87	.85	.88	.86	.84	.84	.82		
5	.97	.91	.85	.82	.96	.89	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.79	.79	.78		
6	.94	.87	.82	.78	.92	.86	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.76	.75		
7	.90	.83	.78	.74	.89	.82	.77	.74	.81	.76	.74	.79	.76	.73	.79	.75	.73	.73	.72		
8	.87	.79	.74	.71	.86	.78	.74	.71	.77	.73	.70	.77	.73	.70	.76	.72	.70	.70	.69		
9	.84	.76	.71	.68	.83	.75	.71	.68	.74	.70	.67	.74	.70	.67	.73	.69	.67	.67	.66		
10	.81	.73	.68	.65	.80	.73	.68	.65	.72	.67	.65	.71	.67	.64	.70	.67	.64	.64	.63		

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 38.1
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 ABSOLUTE PHOTOMETRY TAKEN.

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

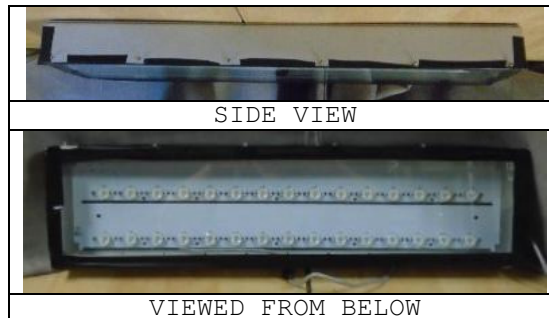
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AMBIENT TEMPERATURE: 25.7 °C
STABILIZATION TIME: 50 MINUTES
THE LUMINAIRE WAS OPERATED IN THE ORIENTATION INDICATED BY THE PICTURES BELOW
LSI MOVING MIRROR GONIOPHOTOMETER 6240T WAS USED

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS
INPUT CURRENT: 0.318 ARMS
INPUT WATTAGE: 38.07
POWER FACTOR: 0.998
THDi: 5.50



Prepared By:

Charles Sisson

Charles Sisson
Senior Technologist

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END OF REPORT