

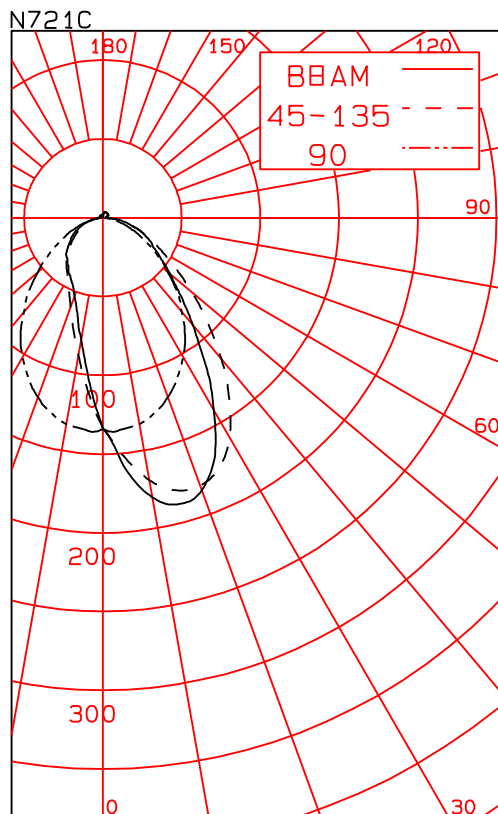


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TEST REPORT NO. N721C  
ACCREDITED BY NVLAP (LAB CODE 500084-0) TO ISO/IES 17025:2017 FOR IES LM-79-19

LINEAR LIGHT FIXTURE CAT. NO. LFA-O-5.0W-CT30-12-AS-MC-IP-N  
ASYMMETRIC LENS  
HIGH DENSITY LIGHTENGINE. LUMEN OUTPUT = 297 LMS.  
120V LED DRIVER



CANDLEPOWER SUMMARY						OUTPUT LUMENS
	BEAM SIDE					
ANGLE	90	67.5	45	22.5	BEAM	
0	134	134	134	134	134	
5	135	145	152	157	159	8
15	128	161	179	186	188	24
25	112	163	175	170	168	37
35	91	147	140	120	114	40
45	67	117	94	75	70	34
55	43	79	57	46	45	25
65	25	45	34	31	32	17
75	11	19	18	19	19	10
85	2	5	6	7	7	3
90	0	2	3	3	3	
95	0	2	2	3	3	1
105	0	2	3	3	3	1
115	1	2	3	3	4	1
125	1	3	3	4	4	1
135	1	3	3	3	4	1
145	1	3	4	4	4	1
155	1	2	3	4	4	1
165	1	1	1	3	3	0
175	0	0	0	0	0	0
180	0	0	0	0	0	
ZONE	LUMENS		% LAMP		%LUMINAIRE	
0-30	99		33.29		33.29	
0-40	153		51.62		51.62	
0-60	239		80.46		80.46	
0-90	284		95.67		95.66	
40-90	131		44.05		44.05	
60-90	45		15.20		15.20	
90-180	12		4.34		4.34	
0-180	297		100.00		100.00	

\*\* EFFICACY = 46.7 LMS/WATT \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	BEAM SIDE		
	90	45	BEAM SIDE
45	8159	11004	8053
55	6455	8080	6225
65	5093	6350	5771
75	3659	5146	5145
85	1976	3949	4049

DATE:  
TESTED: MAY 12, 2022  
ISSUED: MAY 13, 2022  
PREPARED FOR:  
YYZ LIGHTING  
ONTARIO

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

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

TEST REPORT NO. N721C  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

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120V LED DRIVER

# 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	0
RCR																		
0	1.181	1.181	1.181	1.18	1.151	1.151	1.151	1.15	1.091	1.091	1.09	1.031	1.031	1.03	.98	.98	.98	.96
1	1.091	1.051	1.01	.98	1.061	1.03	.99	.96	.97	.95	.92	.93	.91	.89	.89	.87	.85	.83
2	1.01	.94	.89	.83	.98	.92	.87	.82	.88	.83	.80	.84	.81	.77	.81	.78	.75	.73
3	.93	.84	.78	.72	.91	.83	.76	.71	.79	.74	.69	.76	.72	.68	.73	.69	.66	.64
4	.87	.77	.69	.63	.85	.75	.68	.63	.72	.66	.61	.69	.64	.60	.67	.63	.59	.57
5	.81	.69	.61	.56	.78	.68	.61	.55	.65	.59	.54	.63	.58	.53	.61	.56	.52	.50
6	.75	.63	.55	.49	.73	.62	.54	.49	.60	.53	.48	.58	.52	.47	.56	.51	.47	.45
7	.69	.57	.49	.44	.68	.56	.49	.43	.54	.47	.43	.52	.46	.42	.51	.46	.41	.40
8	.65	.52	.45	.39	.63	.51	.44	.39	.50	.43	.38	.48	.42	.38	.47	.41	.37	.36
9	.60	.48	.40	.35	.59	.47	.40	.35	.46	.39	.34	.44	.38	.34	.43	.38	.33	.32
10	.56	.44	.36	.32	.55	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.34	.30	.29

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
LUMINAIRE INPUT WATTS = 6.4  
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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LINEAR LIGHT FIXTURE CAT. NO. LFA-O-5.0W-CT30-12-AS-MC-IP-N  
 ASSYMETRIC LENS  
 HIGH DENSITY LIGHTENGINE. LUMEN OUTPUT = 297 LMS.  
 120V LED DRIVER

BEAM SIDE  
 CANDLEPOWER DATA

ANGLE	PLANE				BEAM SIDE	AVERAGE	OUTPUT LUMENS
	90	67.5	45	22.5			
0	134	134	134	134	134	134	
5	135	145	152	157	159	150	8
10	133	155	169	177	180	164	
15	128	161	179	186	188	171	24
20	121	164	181	184	184	170	
25	112	163	175	170	168	162	37
30	102	157	161	147	141	147	
35	91	147	140	120	114	127	40
40	78	133	117	95	89	107	
45	67	117	94	75	70	89	34
50	54	98	74	59	56	72	
55	43	79	57	46	45	57	25
60	33	62	44	38	37	45	
65	25	45	34	31	32	35	17
70	17	31	26	25	26	26	
75	11	19	18	19	19	18	10
80	6	11	12	12	13	11	
85	2	5	6	7	7	6	3
90	0	2	3	3	3	2	
95	0	2	2	3	3	2	1
100	0	2	2	3	3	2	
105	0	2	3	3	3	2	1
110	1	2	3	3	3	2	
115	1	2	3	3	4	3	1
120	1	2	3	4	4	3	
125	1	3	3	4	4	3	1
130	1	3	3	4	4	3	
135	1	3	3	3	4	3	1
140	1	3	4	4	4	3	
145	1	3	4	4	4	3	1
150	1	2	4	4	4	3	
155	1	2	3	4	4	3	1
160	1	1	3	4	4	3	
165	1	1	1	3	3	2	0
170	0	0	1	1	1	1	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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 ASSYMETRIC LENS  
 HIGH DENSITY LIGHTENGINE. LUMEN OUTPUT = 297 LMS.  
 120V LED DRIVER

BEAM SIDE  
 AVERAGE LUMINANCE DATA

		CD. / SQ. M.		(FOOTLAMBERTS)						
ANGLE	90		67.5		45		22.5		BEAM SIDE	
0	11511 (	3359)	11511 (	3359)	11511 (	3359)	11511 (	3359)	11511 (	3359)
30	10142 (	2960)	15441 (	4506)	15650 (	4567)	14179 (	4138)	13531 (	3949)
40	8767 (	2559)	14695 (	4288)	12693 (	3704)	10212 (	2980)	9505 (	2774)
45	8159 (	2381)	13933 (	4066)	11004 (	3211)	8660 (	2527)	8053 (	2350)
50	7234 (	2111)	12812 (	3739)	9419 (	2749)	7415 (	2164)	6981 (	2037)
55	6455 (	1884)	11489 (	3353)	8080 (	2358)	6399 (	1867)	6225 (	1817)
60	5683 (	1658)	10288 (	3002)	7046 (	2056)	5964 (	1740)	5749 (	1678)
65	5093 (	1486)	8729 (	2547)	6350 (	1853)	5638 (	1645)	5771 (	1684)
70	4280 (	1249)	7349 (	2145)	5854 (	1708)	5443 (	1588)	5586 (	1630)
75	3659 (	1068)	5825 (	1700)	5146 (	1502)	5218 (	1523)	5145 (	1501)
80	2975 (	868)	4821 (	1407)	4776 (	1394)	4488 (	1310)	4759 (	1389)
85	1976 (	576)	3892 (	1136)	3949 (	1152)	4181 (	1220)	4049 (	1181)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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

TEST REPORT NO. N721C  
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LINEAR LIGHT FIXTURE CAT. NO. LFA-O-5.0W-CT30-12-AS-MC-IP-N  
ASSYMETRIC LENS  
HIGH DENSITY LIGHTENGINE. LUMEN OUTPUT = 297 LMS.  
120V LED DRIVER

OPPOSITE SIDE TO BEAM  
CANDLEPOWER DATA

ANGLE	PLANE				NON- BEAM	AVERAGE	OUTPUT LUMENS
	90	112.5	135	157.5			
0	134	134	134	134	134	134	
5	135	121	110	104	103	114	5
10	133	106	89	81	79	95	
15	128	91	73	65	63	81	11
20	121	77	60	54	53	69	
25	112	66	51	47	46	61	14
30	102	56	45	42	42	54	
35	91	47	40	39	38	48	15
40	78	41	36	35	35	42	
45	67	35	31	32	33	37	14
50	54	30	27	29	29	32	
55	43	25	23	25	25	27	12
60	33	19	19	21	22	22	
65	25	15	16	18	18	18	9
70	17	11	12	14	14	13	
75	11	8	9	10	10	9	5
80	6	4	5	6	7	5	
85	2	2	3	4	4	3	2
90	0	1	2	2	3	2	
95	0	1	2	2	2	2	1
100	0	1	2	2	2	2	
105	0	1	2	2	2	2	1
110	1	1	2	2	2	2	
115	1	1	2	2	2	2	1
120	1	1	2	2	2	2	
125	1	1	2	2	2	2	1
130	1	1	1	2	2	1	
135	1	1	2	2	2	2	1
140	1	1	2	2	2	2	
145	1	1	2	2	2	2	1
150	1	1	2	2	2	2	
155	1	1	1	2	2	1	0
160	1	1	1	1	2	1	
165	1	1	1	1	1	1	0
170	0	0	1	1	1	1	
175	0	0	0	1	0	0	0
180	0	0	0	0	0	0	

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 ASSYMETRIC LENS  
 HIGH DENSITY LIGHTENGINE. LUMEN OUTPUT = 297 LMS.  
 120V LED DRIVER

OPPOSITE SIDE TO BEAM  
 AVERAGE LUMINANCE DATA

		CD. / SQ. M.		(FOOTLAMBERTS)			
ANGLE	90	112.5	135	157.5	NON-BEAM		
0	11511 ( 3359)	11511 ( 3359)	11511 ( 3359)	11511 ( 3359)	11511 ( 3359)		
30	10142 ( 2960)	5507 ( 1607)	4374 ( 1276)	4051 ( 1182)	4030 ( 1176)		
40	8767 ( 2559)	4530 ( 1322)	3905 ( 1139)	3762 ( 1098)	3738 ( 1091)		
45	8159 ( 2381)	4168 ( 1216)	3629 ( 1059)	3695 ( 1078)	3796 ( 1108)		
50	7234 ( 2111)	3922 ( 1144)	3436 ( 1003)	3644 ( 1063)	3615 ( 1055)		
55	6455 ( 1884)	3635 ( 1061)	3260 ( 951)	3477 ( 1015)	3458 ( 1009)		
60	5683 ( 1658)	3152 ( 920)	3042 ( 888)	3296 ( 962)	3418 ( 997)		
65	5093 ( 1486)	2909 ( 849)	2988 ( 872)	3273 ( 955)	3246 ( 947)		
70	4280 ( 1249)	2607 ( 761)	2702 ( 788)	3048 ( 889)	3008 ( 878)		
75	3659 ( 1068)	2452 ( 715)	2573 ( 751)	2746 ( 801)	2708 ( 790)		
80	2975 ( 868)	1753 ( 511)	1990 ( 580)	2244 ( 655)	2562 ( 748)		
85	1976 ( 576)	1557 ( 454)	1974 ( 576)	2389 ( 697)	2314 ( 675)		

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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

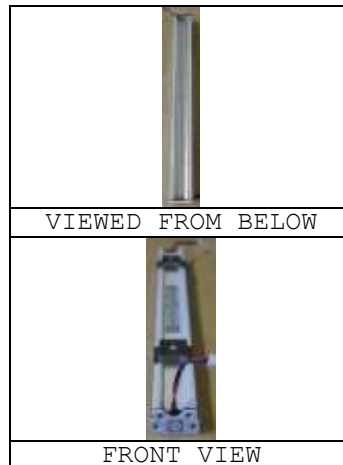
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LINEAR LIGHT FIXTURE CAT. NO. LFA-O-5.0W-CT30-12-AS-MC-IP-N  
ASYMMETRIC LENS  
HIGH DENSITY LIGHTENGINE. LUMEN OUTPUT = 297 LMS.  
120V LED DRIVER

AMBIENT TEMPERATURE: 25.3 °C  
STABILIZATION TIME: 50 MINUTES  
THE LUMINAIRE WAS OPERATED IN THE ORIENTATION INDICATED BY THE PICTURES BELOW  
LSI MOVING MIRROR GONIOPHOTOMETER 6240T WAS USED, UNCERTAINTY OF +/- 1.3% (k = 2)

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS  
INPUT CURRENT: 0.127 ARMS  
INPUT WATTAGE: 6.36  
POWER FACTOR: 0.417  
THDi: 207.26



Prepared By:

Balakumar.B

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