

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4ILED-LD5-16-W-CLWG-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-W-CLWG-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

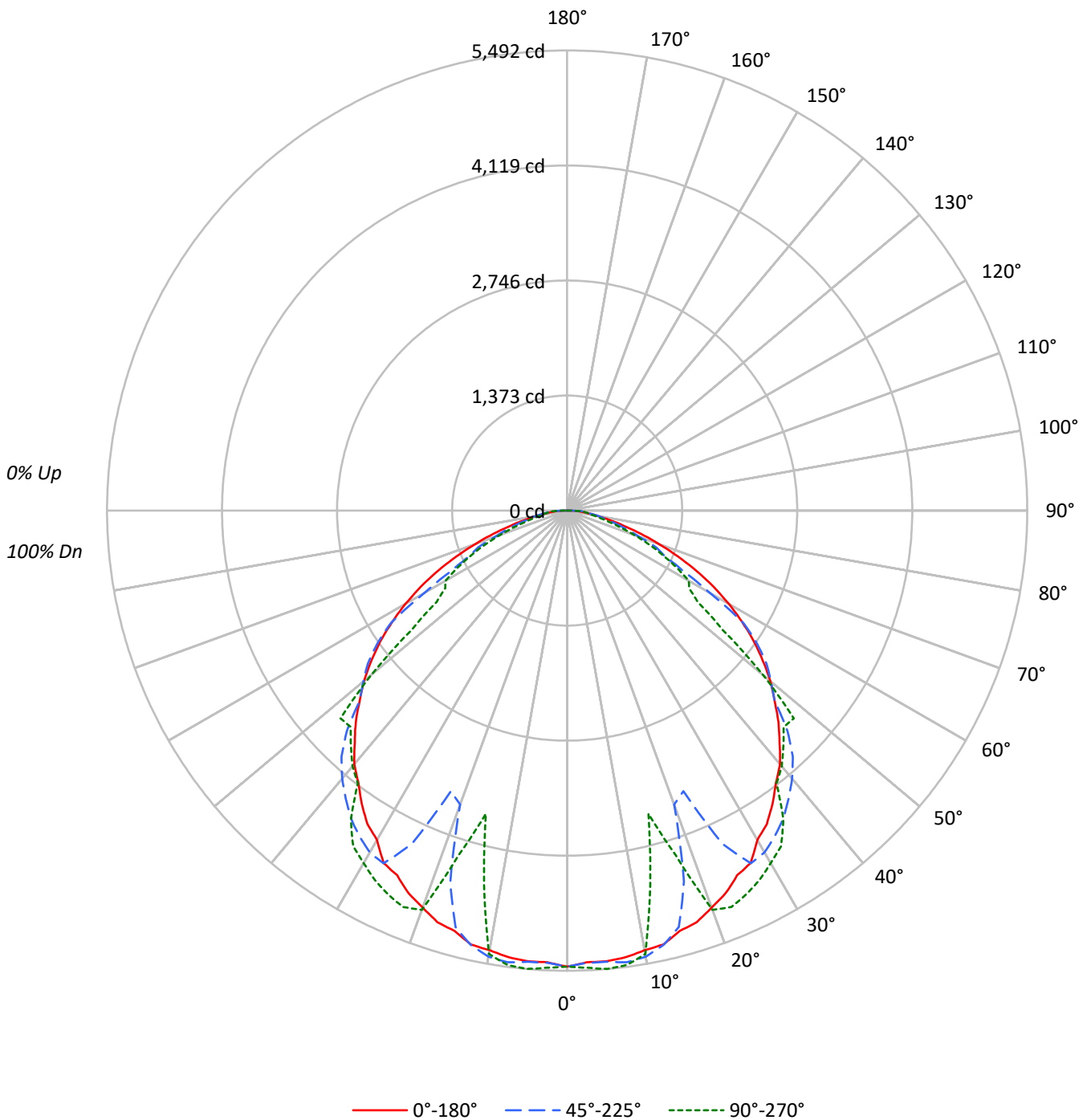
Lumens per Lamp: N/A
Luminaire Lumens: 14094.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15978	15978	15978
5°	15879	15796	16031
10°	15814	15846	15715
15°	15681	15256	11062
20°	15610	11273	15237
25°	15377	13613	15583
30°	15166	15140	15494
35°	15047	15102	14984
40°	14834	14832	13986
45°	14449	14104	13672
50°	14034	13031	12355
55°	13448	12469	8414
60°	12544	9954	8277
65°	11228	7389	7131
70°	9346	6278	5660
75°	7243	5006	4167
80°	5401	4232	3179
85°	4632	3545	3187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	3.7
10°-20°	1369.7	9.7
20°-30°	2183.9	15.5
30°-40°	2621.1	18.6
40°-50°	2787.7	19.8
50°-60°	2280.6	16.2
60°-70°	1446.0	10.3
70°-80°	668.0	4.7
80°-90°	220.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4070.3	28.9
0°-40°	6691.4	47.5
0°-60°	11759.7	83.4
0°-90°	14094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5443	5443	5443	5443	5443	
5°	5400	5402	5405	5447	5492	513
15°	5194	5275	5147	4055	3746	1472
25°	4803	4816	4389	5011	5056	2225
35°	4272	3202	4494	4579	4500	2669
45°	3567	3583	3720	3628	3652	2748
55°	2721	2865	2766	2144	1900	2423
65°	1703	1732	1280	1289	1267	1679
75°	698	662	598	553	517	765
85°	177	192	219	219	213	191
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5442.7	5442.7	5442.7	5442.7	5442.7
2.5°	5395.7	5404.7	5402.4	5442.7	5460.6
5°	5400.2	5402.4	5404.7	5447.2	5492.0
7.5°	5375.6	5422.6	5438.2	5422.6	5469.6
10°	5328.6	5371.1	5404.7	5357.7	5373.3
12.5°	5304.0	5366.6	5310.7	5080.2	4578.9
15°	5194.3	5274.9	5147.3	4055.2	3746.3
17.5°	5149.5	5203.3	4639.3	3728.4	4312.6
20°	5042.1	5116.0	3732.9	4793.7	5071.2
22.5°	4943.7	4997.4	3623.3	5042.1	5120.5
25°	4802.7	4816.1	4388.6	5010.8	5055.6
27.5°	4742.2	4540.8	4746.7	4945.9	4970.5
30°	4538.6	4124.6	4710.9	4856.4	4858.6
32.5°	4435.6	3591.9	4610.2	4726.6	4751.2
35°	4272.3	3202.5	4493.8	4578.9	4500.5
37.5°	4093.2	3146.6	4339.4	4294.6	4104.4
40°	3952.2	3433.0	4178.3	3900.8	3983.6
42.5°	3753.1	3607.6	3985.8	3804.5	3820.2
45°	3567.3	3583.0	3719.5	3627.7	3652.4
47.5°	3356.9	3459.9	3354.7	3475.6	3670.3
50°	3164.5	3274.1	3175.7	3374.8	3057.1
52.5°	2945.2	3081.7	2998.9	2714.6	2345.4
55°	2721.4	2864.6	2766.1	2144.0	1900.0
57.5°	2477.4	2596.0	2493.1	1756.8	1725.5
60°	2229.0	2323.0	1973.9	1600.1	1676.2
62.5°	1967.2	2025.4	1557.6	1474.8	1470.3
65°	1703.1	1732.2	1280.1	1289.1	1266.7
67.5°	1427.8	1441.2	1152.5	1092.1	1058.6
70°	1163.7	1154.8	922.0	888.5	857.1
72.5°	922.0	879.5	749.7	705.0	666.9
75°	698.2	662.4	597.5	552.8	517.0
77.5°	519.2	499.1	467.7	472.2	396.1
80°	364.8	367.0	384.9	326.7	304.4
82.5°	252.9	266.3	275.3	270.8	264.1
85°	176.8	192.5	219.3	219.3	212.6
87.5°	89.5	132.0	176.8	188.0	183.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)