

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-N-WG-UNV-L835-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 (P34186)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-N-WG-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

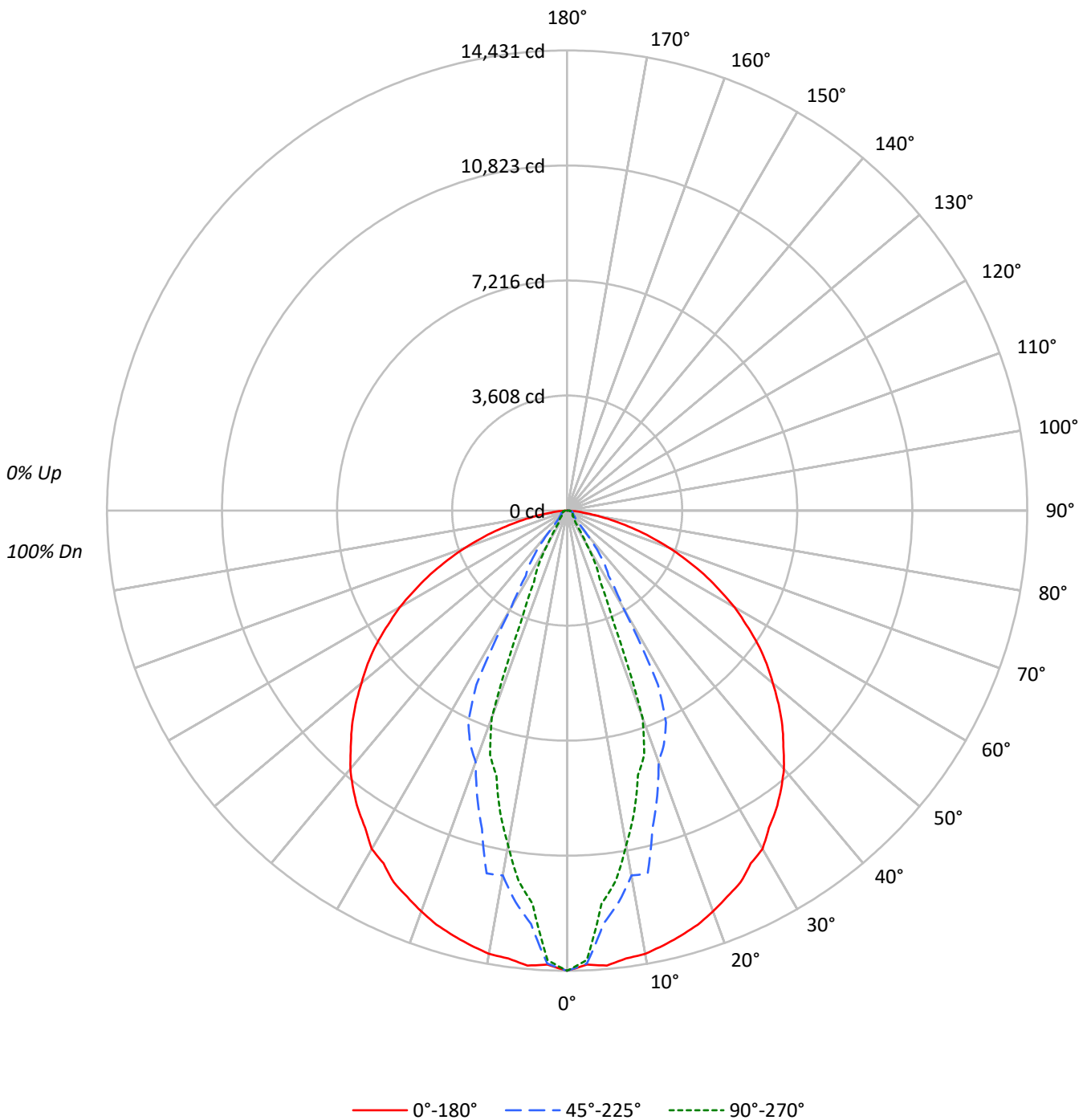
Lumens per Lamp: N/A
Luminaire Lumens: 14327.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49					49			
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42363	42363	42363
5°	42111	38038	36158
10°	41885	34072	31201
15°	41655	30622	25356
20°	41402	25329	20772
25°	41201	22753	7556
30°	40948	11330	3939
35°	40271	6852	1500
40°	39705	3425	1307
45°	38659	1483	967
50°	37345	1255	881
55°	36060	1047	924
60°	34114	1088	901
65°	31197	1177	921
70°	27228	1227	955
75°	21767	1350	1051
80°	14673	1590	1163
85°	7825	1878	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1232.6	8.6
10°-20°	2988.3	20.9
20°-30°	3255.3	22.7
30°-40°	2504.2	17.5
40°-50°	1850.3	12.9
50°-60°	1164.2	8.1
60°-70°	762.3	5.3
70°-80°	426.8	3.0
80°-90°	142.9	1.0
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°	7476.2	52.2
0°-40°	9980.5	69.7
0°-60°	12994.9	90.7
0°-90°	14327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14431	14431	14431	14431	14431	
5°	14322	14210	13015	12247	12387	###
15°	13798	11996	10332	8968	8587	3896
25°	12868	9616	7335	3267	2451	5916
35°	11434	7086	2039	650	450	7151
45°	9545	3774	391	330	258	7350
55°	7297	967	232	244	209	6501
65°	4732	239	204	182	164	4667
75°	2098	180	161	145	130	2251
85°	299	114	116	111	97	381
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14430.6	14430.6	14430.6	14430.6	14430.6
2.5°	14252.8	14257.6	14222.0	14150.9	14105.9
5°	14321.6	14210.2	13015.3	12247.2	12387.1
7.5°	14165.1	13589.0	12387.1	11813.4	11701.9
10°	14113.0	12636.0	11621.3	11426.9	10668.3
12.5°	13963.6	12057.5	11656.9	10431.2	9703.4
15°	13797.7	11995.9	10331.6	8968.5	8586.8
17.5°	13617.5	11455.4	9388.1	8219.3	8036.8
20°	13373.3	11109.2	8387.6	7555.5	6913.1
22.5°	13110.1	10943.3	7934.8	4924.0	3816.9
25°	12868.3	9615.7	7335.0	3266.9	2451.3
27.5°	12470.0	9509.0	6161.5	2392.1	2022.2
30°	12254.3	8522.8	3525.3	1799.4	1235.2
32.5°	11787.3	7749.9	2413.4	1092.9	737.3
35°	11434.0	7086.1	2038.8	649.6	450.4
37.5°	11019.2	6647.5	1524.4	445.7	391.2
40°	10578.2	6130.7	964.9	398.3	372.2
42.5°	10042.4	5521.4	571.3	374.6	320.0
45°	9544.6	3774.2	391.2	329.5	258.4
47.5°	8994.6	2574.6	334.3	279.7	222.8
50°	8420.8	1683.2	305.8	248.9	218.1
52.5°	7882.7	1379.8	265.5	248.9	218.1
55°	7297.1	967.3	232.3	244.2	208.6
57.5°	6654.6	602.2	218.1	237.1	201.5
60°	6062.0	355.6	215.7	230.0	182.5
62.5°	5369.7	270.3	211.0	203.9	173.1
65°	4732.0	239.4	203.9	182.5	163.6
67.5°	4046.8	215.7	189.7	175.4	158.8
70°	3390.1	194.4	180.2	163.6	144.6
72.5°	2731.1	187.3	170.7	154.1	137.5
75°	2098.1	180.2	161.2	144.6	130.4
77.5°	1526.8	168.3	151.7	139.9	123.3
80°	991.0	154.1	144.6	130.4	111.4
82.5°	552.4	139.9	132.8	120.9	106.7
85°	298.7	113.8	116.2	111.4	97.2
87.5°	54.5	80.6	99.6	97.2	85.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)