

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: P35082

Luminaire Tested: **14EN-LD2-51HP-UNV-L835-CD1-SVPD1-U**

Test Date: 10/13/16

Test Information

Test Method: LM-79-08
Report Number: P35082
Test Lab: INNOVATION CENTER-P3
Test Date: 10/13/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-51HP-UNV-L835-CD1-SVPD1-U
Description: ENCOUNTER 1X4 LED TROFFER WITH SENSOR
Light Source: (392) EATON 3500K LEDS
EL232N098E835
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 960 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5056.3 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.37 / 1.41
Luminous Opening: Rectangular (W 0.79' x L: 3.83' x H: 0')
CIE Type: Direct

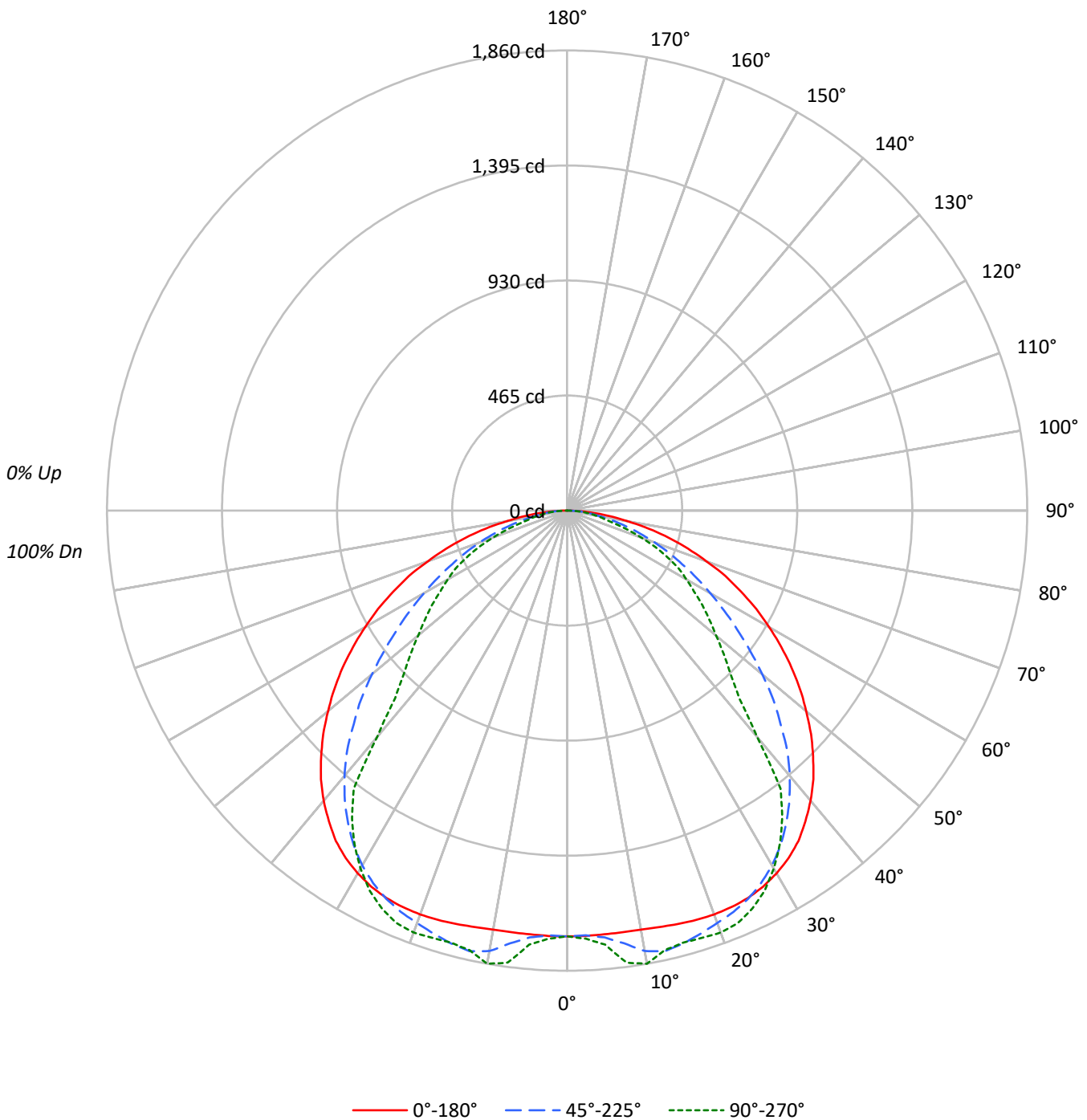
Input Watts (W): 42.8
Input Voltage (V): 120.0
Input Current (Ain): 0.359
Voltage Rise (V): NR
Power Factor: 0.9997
Total Harmonic Distortion (THDi): 7.67%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.5
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6104	6104	6104
5°	6120	6167	6270
10°	6195	6512	6699
15°	6353	6654	6639
20°	6556	6696	6851
25°	6763	6774	6943
30°	6934	6782	6840
35°	7058	6686	6564
40°	7089	6482	5533
45°	7053	6120	4680
50°	6964	5684	4337
55°	6852	5188	4125
60°	6689	4739	3951
65°	6504	4305	3768
70°	6222	3889	3308
75°	5824	3399	2604
80°	5045	2737	2512
85°	4273	2645	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	3.3
10°-20°	507.0	10.0
20°-30°	802.3	15.9
30°-40°	968.0	19.1
40°-50°	920.4	18.2
50°-60°	767.2	15.2
60°-70°	552.7	10.9
70°-80°	291.7	5.8
80°-90°	78.6	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°	1477.6	29.2
0°-40°	2445.6	48.4
0°-60°	4133.3	81.7
0°-90°	5056.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5056.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1719	1725	1732	1753	1761	164
15°	1730	1772	1812	1804	1808	490
25°	1728	1731	1731	1763	1774	797
35°	1630	1578	1544	1530	1516	1017
45°	1406	1314	1220	1049	933	1084
55°	1108	998	839	699	667	989
65°	775	655	513	455	449	767
75°	425	321	248	206	190	448
85°	105	68	65	62	60	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1721	1721	1721	1721	1721
2.5°	1721	1721	1718	1728	1732
5°	1719	1725	1732	1753	1761
7.5°	1719	1733	1764	1817	1843
10°	1720	1749	1808	1857	1860
12.5°	1724	1765	1824	1826	1820
15°	1730	1772	1812	1804	1808
17.5°	1735	1771	1793	1799	1811
20°	1737	1763	1774	1798	1815
22.5°	1735	1750	1756	1789	1804
25°	1728	1731	1731	1763	1774
27.5°	1714	1704	1698	1726	1730
30°	1693	1670	1656	1668	1670
32.5°	1666	1631	1605	1604	1600
35°	1630	1578	1544	1530	1516
37.5°	1582	1522	1476	1444	1416
40°	1531	1458	1400	1310	1195
42.5°	1473	1386	1317	1169	1029
45°	1406	1314	1220	1049	933
47.5°	1337	1243	1131	946	858
50°	1262	1165	1030	853	786
52.5°	1187	1084	933	775	725
55°	1108	998	839	699	667
57.5°	1026	913	753	632	608
60°	943	827	668	572	557
62.5°	862	737	591	516	510
65°	775	655	513	455	449
67.5°	693	568	444	391	386
70°	600	483	375	329	319
72.5°	512	400	310	267	255
75°	425	321	248	206	190
77.5°	339	255	189	158	152
80°	247	184	134	124	123
82.5°	175	122	98	93	92
85°	105	68	65	62	60
87.5°	50	32	28	22	21
90°	0	0	0	0	0

(END OF REPORT)