

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: P35051

Luminaire Tested: **24EN-LD2-58HP-UNV-L835-CD1-U**

Test Date: 08/03/16

Test Information

Test Method: LM-79-08
Report Number: P35051
Test Lab: INNOVATION CENTER-P3
Test Date: 08/03/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-58HP-UNV-L835-CD1-U
Description: ENCOUNTER 2X4 LED TROFFER
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: 5839.2 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.4 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

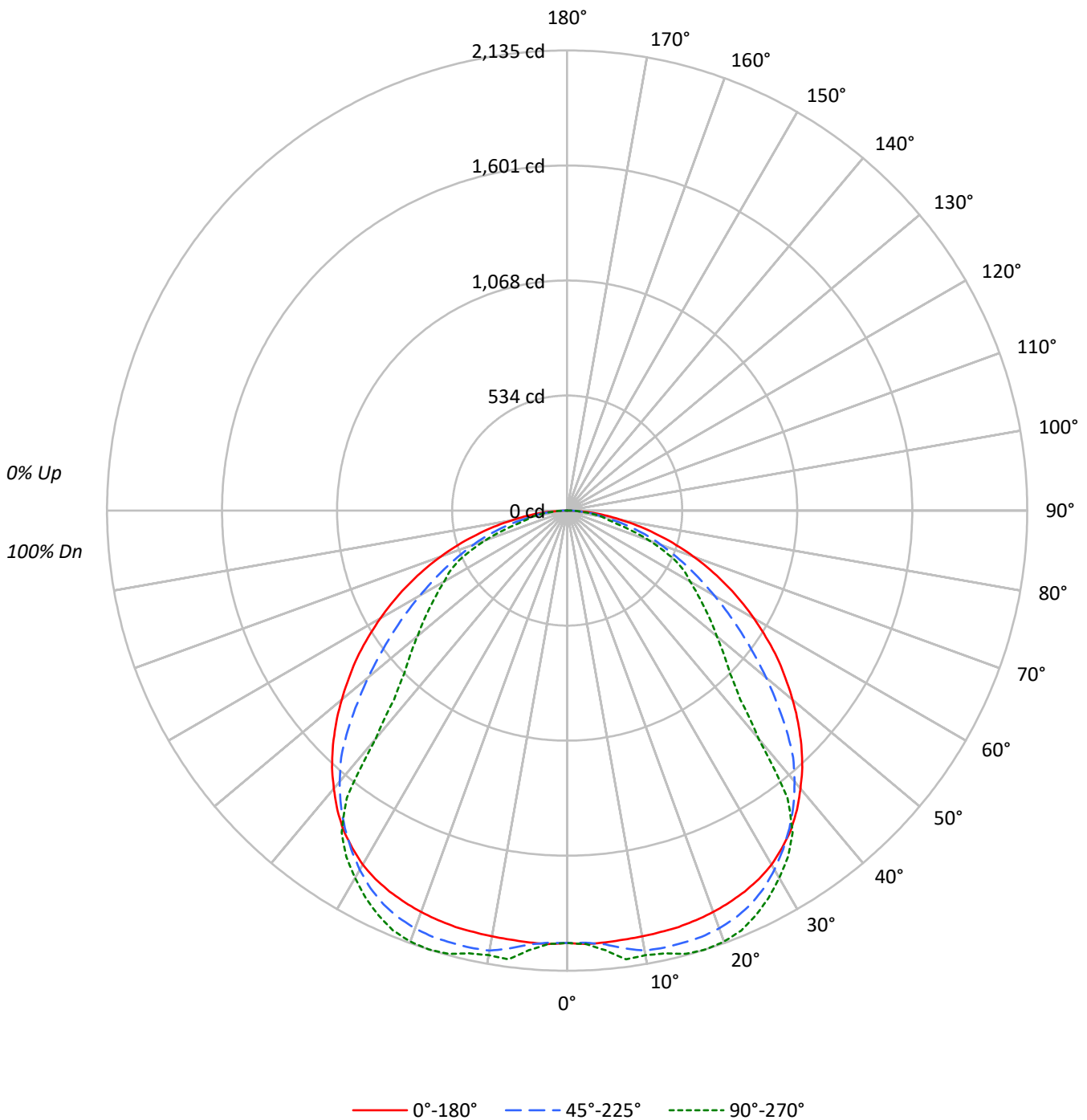
Input Watts (W): 43.3
Input Voltage (V): 120.0
Input Current (Ain): 0.362
Voltage Rise (V): NR
Power Factor: 0.9997
Total Harmonic Distortion (THDi): 7.83%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	30	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°	3072	3072	3072
5°	3092	3106	3149
10°	3120	3224	3257
15°	3171	3292	3376
20°	3231	3363	3468
25°	3295	3407	3502
30°	3355	3403	3481
35°	3384	3362	3410
40°	3367	3283	2765
45°	3327	3117	2313
50°	3255	2871	2159
55°	3178	2633	2067
60°	3066	2414	2019
65°	2950	2229	2026
70°	2794	2069	1809
75°	2580	1864	1432
80°	2302	1499	1447
85°	2144	1423	1353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	3.3
10°-20°	585.0	10.0
20°-30°	926.6	15.9
30°-40°	1119.3	19.2
40°-50°	1054.2	18.1
50°-60°	873.2	15.0
60°-70°	638.1	10.9
70°-80°	348.2	6.0
80°-90°	99.9	1.7
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°	1706.2	29.2
0°-40°	2825.5	48.4
0°-60°	4752.9	81.4
0°-90°	5839.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5839.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2011	2009	2020	2031	2048	192
15°	2000	2025	2076	2103	2129	566
25°	1950	1970	2016	2056	2072	900
35°	1810	1784	1798	1823	1824	1129
45°	1536	1483	1439	1223	1068	1183
55°	1190	1117	986	812	774	1061
65°	814	735	615	547	559	805
75°	436	384	315	259	242	463
85°	122	94	81	74	77	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006	2006	2006	2006	2006
2.5°	2013	2006	2007	2006	2013
5°	2011	2009	2020	2031	2048
7.5°	2008	2013	2049	2083	2100
10°	2006	2021	2073	2088	2094
12.5°	2003	2025	2077	2089	2104
15°	2000	2025	2076	2103	2129
17.5°	1992	2021	2074	2111	2135
20°	1982	2012	2063	2104	2128
22.5°	1968	1997	2044	2087	2109
25°	1950	1970	2016	2056	2072
27.5°	1927	1939	1976	2010	2025
30°	1897	1898	1924	1956	1968
32.5°	1856	1846	1864	1893	1906
35°	1810	1784	1798	1823	1824
37.5°	1751	1716	1725	1713	1680
40°	1684	1641	1642	1543	1383
42.5°	1615	1564	1552	1377	1189
45°	1536	1483	1439	1223	1068
47.5°	1453	1394	1319	1102	985
50°	1366	1301	1205	993	906
52.5°	1277	1209	1091	900	839
55°	1190	1117	986	812	774
57.5°	1094	1022	885	738	714
60°	1001	924	788	670	659
62.5°	908	829	698	612	616
65°	814	735	615	547	559
67.5°	719	641	536	483	483
70°	624	551	462	407	404
72.5°	530	463	392	334	321
75°	436	384	315	259	242
77.5°	349	309	242	193	189
80°	261	242	170	160	164
82.5°	186	169	129	118	119
85°	122	94	81	74	77
87.5°	44	41	39	38	40
90°	0	0	0	0	0

(END OF REPORT)