

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: P35052

Luminaire Tested: **24EN-LD2-67HP-UNV-L835-CD1-U**

Test Date: 08/03/16

Test Information

Test Method: LM-79-08
Report Number: P35052
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-LD2-67HP-UNV-L835-CD1-U
Description: ENCOUNTER 2X4 LED TROFFER
Light Source: (392) EATON 3500K LEDS
EL232N098E835
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 1120 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6774.1 lumens
Efficiency: N/A
Efficacy: 131.8 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

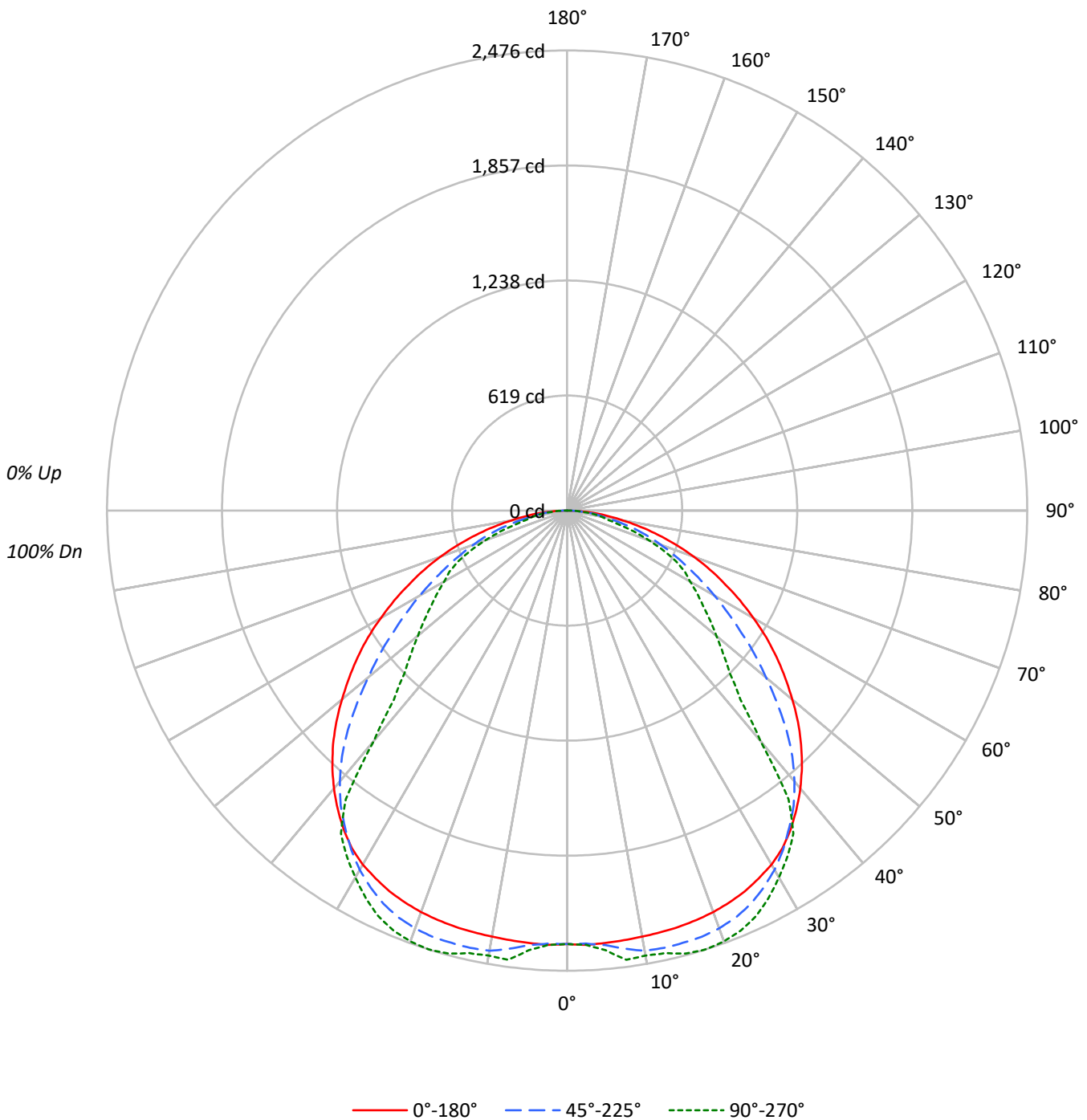
Input Watts (W): 51.4
Input Voltage (V): 120.0
Input Current (Ain): 0.430
Voltage Rise (V): NR
Power Factor: 0.9998
Total Harmonic Distortion (THDi): 7.96%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.8
Test Distance: 25 FT



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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	88	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°	3572	3572	3572
5°	3592	3607	3652
10°	3621	3740	3781
15°	3677	3818	3913
20°	3747	3899	4021
25°	3821	3948	4068
30°	3889	3947	4031
35°	3919	3895	3968
40°	3903	3805	3237
45°	3858	3613	2684
50°	3770	3329	2497
55°	3674	3055	2382
60°	3547	2806	2340
65°	3399	2577	2341
70°	3242	2396	2091
75°	3006	2195	1681
80°	2673	1773	1658
85°	2495	1669	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	3.3
10°-20°	678.5	10.0
20°-30°	1074.2	15.9
30°-40°	1298.3	19.2
40°-50°	1222.1	18.0
50°-60°	1013.0	15.0
60°-70°	740.5	10.9
70°-80°	405.1	6.0
80°-90°	116.7	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°	1978.5	29.2
0°-40°	3276.8	48.4
0°-60°	5511.8	81.4
0°-90°	6774.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6774.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2332	2332	2332	2332	2332	
5°	2336	2333	2346	2361	2375	223
15°	2319	2349	2408	2439	2468	656
25°	2261	2286	2336	2382	2407	1043
35°	2096	2071	2083	2110	2122	1309
45°	1781	1715	1668	1418	1239	1371
55°	1376	1290	1144	946	892	1229
65°	938	858	711	633	646	931
75°	508	443	371	300	284	539
85°	142	110	95	89	91	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2332	2332	2332	2332	2332
2.5°	2339	2331	2332	2331	2339
5°	2336	2333	2346	2361	2375
7.5°	2332	2338	2378	2416	2438
10°	2328	2345	2405	2424	2431
12.5°	2324	2349	2410	2422	2439
15°	2319	2349	2408	2439	2468
17.5°	2310	2344	2405	2447	2476
20°	2299	2333	2392	2439	2467
22.5°	2282	2314	2370	2419	2445
25°	2261	2286	2336	2382	2407
27.5°	2232	2248	2288	2330	2349
30°	2199	2200	2232	2265	2279
32.5°	2155	2140	2163	2192	2207
35°	2096	2071	2083	2110	2122
37.5°	2027	1991	2002	1990	1957
40°	1952	1906	1903	1787	1619
42.5°	1870	1815	1794	1589	1381
45°	1781	1715	1668	1418	1239
47.5°	1685	1618	1532	1279	1138
50°	1582	1513	1397	1156	1048
52.5°	1478	1404	1273	1046	969
55°	1376	1290	1144	946	892
57.5°	1271	1185	1025	854	828
60°	1158	1073	916	778	764
62.5°	1049	967	810	707	714
65°	938	858	711	633	646
67.5°	833	749	620	559	562
70°	724	644	535	474	467
72.5°	617	540	455	387	379
75°	508	443	371	300	284
77.5°	406	357	282	225	219
80°	303	280	201	186	188
82.5°	219	194	151	137	140
85°	142	110	95	89	91
87.5°	48	50	45	45	47
90°	0	0	0	0	0

(END OF REPORT)