

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: P35084

Luminaire Tested: **24ENA-LD2-74HP-UNV-L827-CD1-SVPD1-U**

Test Date: 10/10/16

Test Information

Test Method: LM-79-08
Report Number: P35084
Test Lab: INNOVATION CENTER-P3
Test Date: 10/10/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-74HP-UNV-L827-CD1-SVPD1-U
Description: ENCOUNTER AIR 2X4 LED TROFFER WITH SENSOR
Light Source: (392) EATON 2700K LEDS
EL232N098E827
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER w/ 5.01K RES
XI054C150V054DNT1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6774.1 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.4 / 1.42
Luminous Opening: Rectangular (W 1.79' x L: 3.83' x H: 0')
CIE Type: Direct

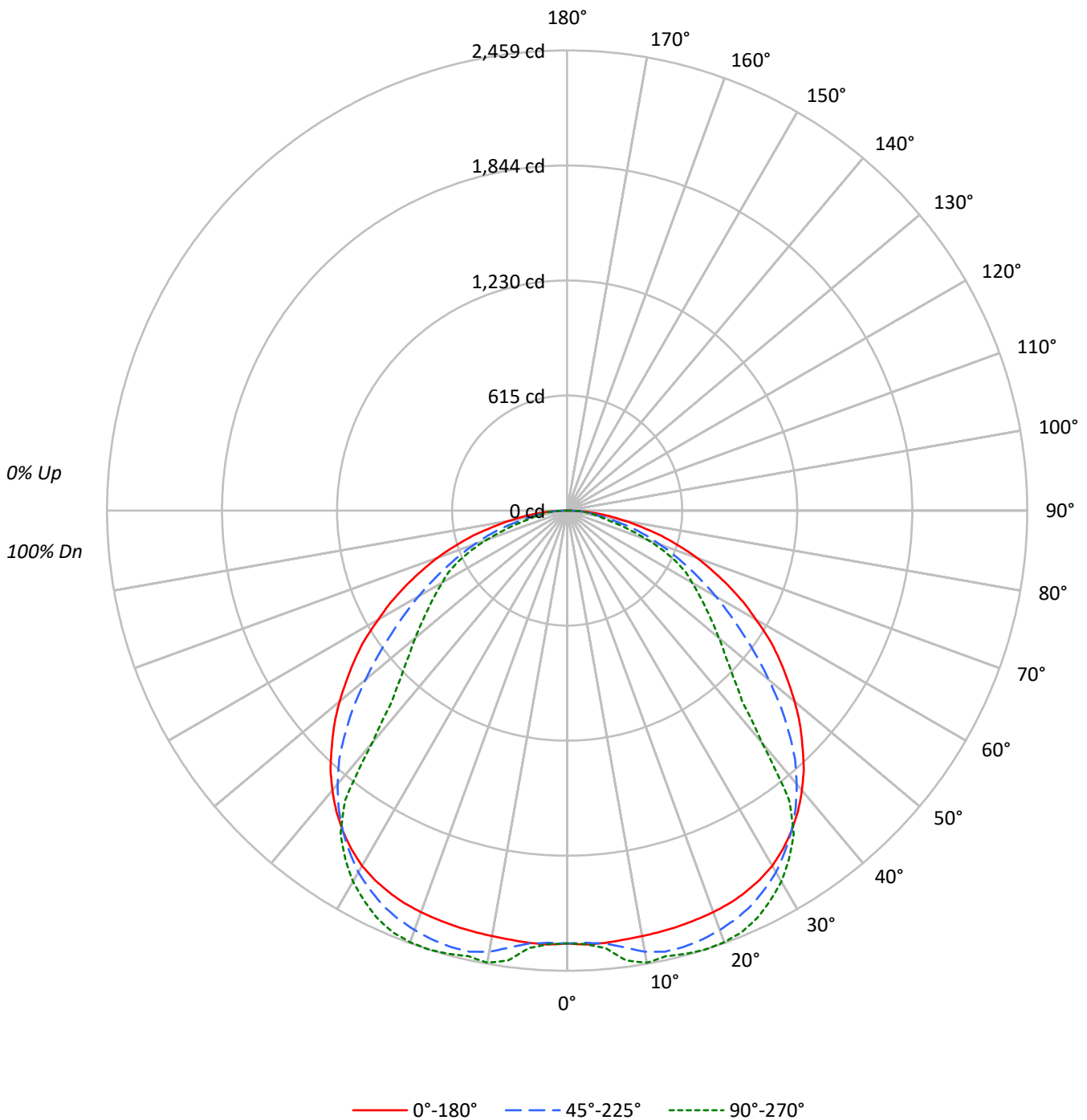
Input Watts (W): 56.1
Input Voltage (V): 120.0
Input Current (A_{in}): 0.468
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 5.15%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.5
Test Distance: 25 FT



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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	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	83	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	47	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	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3625	3625	3625
5°	3648	3653	3691
10°	3675	3810	3904
15°	3732	3915	3978
20°	3809	3978	4093
25°	3893	4027	4155
30°	3967	4039	4142
35°	3999	3999	4039
40°	3994	3904	3316
45°	3941	3712	2779
50°	3869	3428	2582
55°	3782	3131	2465
60°	3652	2874	2417
65°	3523	2626	2373
70°	3386	2410	2099
75°	3161	2144	1671
80°	2834	1751	1507
85°	2715	1798	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	3.3
10°-20°	676.4	10.0
20°-30°	1071.7	15.8
30°-40°	1298.2	19.2
40°-50°	1227.6	18.1
50°-60°	1019.2	15.0
60°-70°	741.4	10.9
70°-80°	398.1	5.9
80°-90°	117.3	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°	1972.3	29.1
0°-40°	3270.6	48.3
0°-60°	5517.3	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°	2313	2313	2313	2313	2313	
5°	2319	2314	2322	2332	2346	221
15°	2300	2339	2413	2431	2452	651
25°	2251	2279	2329	2379	2403	1039
35°	2090	2068	2090	2109	2111	1306
45°	1778	1730	1675	1427	1254	1372
55°	1384	1306	1146	952	902	1236
65°	950	862	708	632	640	942
75°	522	444	354	293	276	549
85°	151	104	100	98	102	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2313	2313	2313	2313	2313
2.5°	2321	2313	2312	2311	2319
5°	2319	2314	2322	2332	2346
7.5°	2313	2317	2354	2401	2425
10°	2309	2325	2394	2440	2453
12.5°	2305	2335	2414	2430	2439
15°	2300	2339	2413	2431	2452
17.5°	2292	2337	2403	2433	2459
20°	2284	2327	2385	2426	2454
22.5°	2271	2308	2361	2411	2438
25°	2251	2279	2329	2379	2403
27.5°	2226	2241	2283	2330	2350
30°	2192	2195	2232	2269	2289
32.5°	2146	2137	2164	2194	2207
35°	2090	2068	2090	2109	2111
37.5°	2026	1993	2006	1988	1948
40°	1952	1911	1908	1793	1621
42.5°	1872	1820	1803	1595	1386
45°	1778	1730	1675	1427	1254
47.5°	1687	1626	1546	1282	1146
50°	1587	1526	1406	1154	1059
52.5°	1484	1419	1275	1048	977
55°	1384	1306	1146	952	902
57.5°	1281	1199	1026	858	834
60°	1165	1086	917	780	771
62.5°	1062	972	811	706	716
65°	950	862	708	632	640
67.5°	842	753	614	558	553
70°	739	646	526	461	458
72.5°	626	538	444	378	364
75°	522	444	354	293	276
77.5°	408	351	270	217	205
80°	314	269	194	168	167
82.5°	226	186	138	132	134
85°	151	104	100	98	102
87.5°	64	55	54	54	57
90°	0	0	0	0	0

(END OF REPORT)