

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: P35092

Luminaire Tested: **24ENA-LD2-34HP-UNV-L827-CD1-SVPD1-U**

Test Date: 10/18/16

Test Information

Test Method: LM-79-08
Report Number: P35092
Test Lab: INNOVATION CENTER-P3
Test Date: 10/18/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-34HP-UNV-L827-CD1-SVPD1-U
Description: ENCOUNTER AIR 2X4 LED TROFFER WITH SENSOR
Light Source: (308) EATON 2700K LEDS
EL236N077E827
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 560 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3179.8 lumens
Efficiency: N/A
Efficacy: 128.2 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

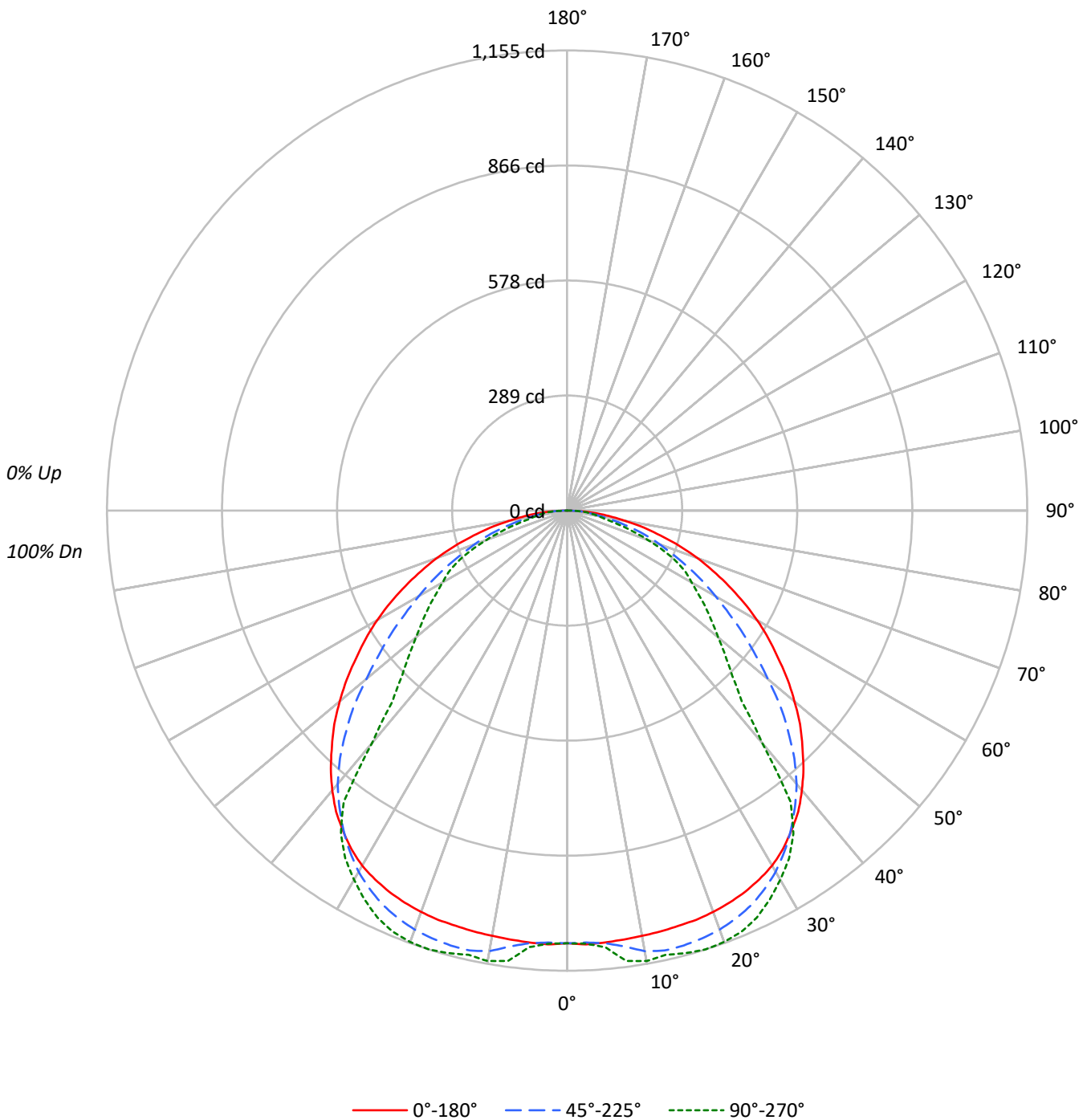
Input Watts (W): 24.8
Input Voltage (V): 120.0
Input Current (Ain): 0.208
Voltage Rise (V): NR
Power Factor: 0.9981
Total Harmonic Distortion (THDi): 7.45%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.5
Test Distance: 25 FT



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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	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	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	39
7	66	53	44	38	64	52	44	38	50	43	37	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	30	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°	1702	1702	1702
5°	1712	1715	1731
10°	1725	1787	1827
15°	1751	1833	1866
20°	1788	1866	1921
25°	1826	1890	1949
30°	1862	1895	1936
35°	1877	1873	1894
40°	1876	1833	1559
45°	1851	1740	1299
50°	1816	1604	1207
55°	1768	1475	1161
60°	1727	1348	1132
65°	1661	1239	1124
70°	1595	1127	990
75°	1471	1005	793
80°	1336	821	722
85°	1295	827	845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	3.3
10°-20°	317.2	10.0
20°-30°	502.8	15.8
30°-40°	609.2	19.2
40°-50°	575.8	18.1
50°-60°	478.2	15.0
60°-70°	348.7	11.0
70°-80°	187.6	5.9
80°-90°	55.2	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°	925.2	29.1
0°-40°	1534.3	48.3
0°-60°	2588.3	81.4
0°-90°	3179.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3179.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1088	1086	1090	1094	1100	104
15°	1079	1097	1130	1139	1150	306
25°	1056	1069	1093	1116	1127	487
35°	981	972	979	988	990	613
45°	835	810	785	669	586	644
55°	647	614	540	447	425	580
65°	448	404	334	297	303	444
75°	243	206	166	141	131	259
85°	72	50	46	46	47	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086	1086	1086	1086	1086
2.5°	1090	1086	1085	1085	1088
5°	1088	1086	1090	1094	1100
7.5°	1086	1087	1103	1126	1140
10°	1084	1092	1123	1144	1148
12.5°	1082	1095	1131	1137	1142
15°	1079	1097	1130	1139	1150
17.5°	1077	1096	1126	1142	1155
20°	1072	1091	1119	1139	1152
22.5°	1065	1082	1108	1132	1144
25°	1056	1069	1093	1116	1127
27.5°	1044	1052	1072	1094	1101
30°	1029	1029	1047	1062	1070
32.5°	1008	1002	1015	1028	1036
35°	981	972	979	988	990
37.5°	953	936	939	934	921
40°	917	897	896	842	762
42.5°	878	853	844	747	649
45°	835	810	785	669	586
47.5°	793	764	726	604	538
50°	745	715	658	543	495
52.5°	698	665	596	490	458
55°	647	614	540	447	425
57.5°	600	562	482	404	390
60°	551	509	430	366	361
62.5°	500	461	382	331	336
65°	448	404	334	297	303
67.5°	396	352	287	263	261
70°	348	303	246	221	216
72.5°	296	254	208	179	173
75°	243	206	166	141	131
77.5°	197	163	128	102	97
80°	148	127	91	79	80
82.5°	106	87	65	62	63
85°	72	50	46	46	47
87.5°	29	25	26	26	28
90°	0	0	0	0	0

(END OF REPORT)