

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: P238659

Luminaire Tested: **14ENA-LD2-25-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ENA-LD2-25-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2199.1 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')
CIE Type: Direct

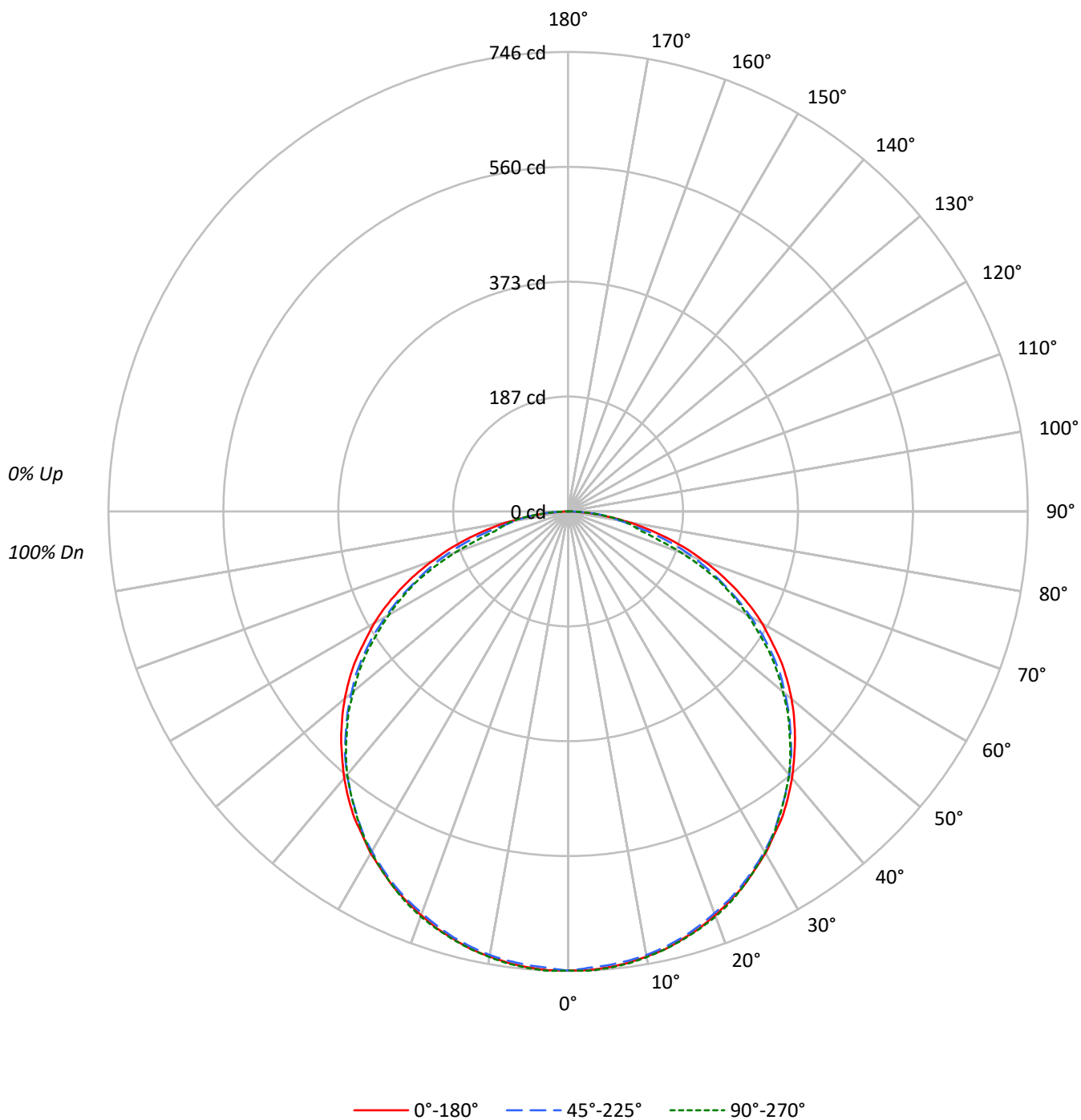
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3139	3139	3139
5°	3141	3127	3146
10°	3138	3128	3143
15°	3133	3123	3138
20°	3127	3111	3138
25°	3123	3107	3123
30°	3116	3099	3110
35°	3115	3079	3085
40°	3107	3069	3069
45°	3103	3040	3027
50°	3101	3010	2979
55°	3091	2971	2929
60°	3065	2879	2830
65°	3001	2758	2723
70°	2878	2649	2392
75°	2706	2384	2005
80°	2396	2059	2256
85°	1856	2136	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	3.2
10°-20°	202.7	9.2
20°-30°	309.0	14.0
30°-40°	376.2	17.1
40°-50°	395.6	18.0
50°-60°	363.1	16.5
60°-70°	279.0	12.7
70°-80°	155.7	7.1
80°-90°	47.3	2.1
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°	582.2	26.5
0°-40°	958.5	43.6
0°-60°	1717.2	78.1
0°-90°	2199.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	743	743	740	743	744	71
15°	719	719	716	719	720	203
25°	672	670	669	671	672	310
35°	606	603	599	600	600	379
45°	521	517	510	508	508	402
55°	421	417	405	398	399	375
65°	301	293	277	273	273	298
75°	166	158	146	127	123	176
85°	38	40	44	43	42	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	745.3	745.3	745.3	745.3	745.3
2.5°	745.3	745.3	741.8	745.3	746.5
5°	743.0	743.0	739.5	743.0	744.1
7.5°	739.5	739.5	736.0	738.3	740.6
10°	733.7	733.7	731.3	733.7	734.8
12.5°	727.9	726.7	724.4	726.7	727.9
15°	718.6	718.6	716.2	718.6	719.7
17.5°	709.3	708.1	705.8	709.3	710.4
20°	697.6	696.5	694.1	697.6	700.0
22.5°	684.8	683.7	682.5	686.0	687.2
25°	672.0	669.7	668.6	670.9	672.0
27.5°	655.8	654.6	653.4	654.6	655.8
30°	640.7	638.3	637.2	637.2	639.5
32.5°	622.1	620.9	619.7	620.9	620.9
35°	605.8	603.4	598.8	600.0	600.0
37.5°	586.0	582.5	579.0	579.0	579.0
40°	565.1	562.8	558.1	556.9	558.1
42.5°	543.0	540.7	536.0	532.5	533.7
45°	520.9	517.4	510.4	508.1	508.1
47.5°	497.6	494.2	486.0	482.5	483.7
50°	473.2	468.6	459.3	454.6	454.6
52.5°	447.6	443.0	433.7	427.9	427.9
55°	420.9	417.4	404.6	397.6	398.8
57.5°	390.7	387.2	374.4	366.3	366.3
60°	363.9	357.0	341.8	336.0	336.0
62.5°	333.7	325.6	310.4	303.5	304.6
65°	301.1	293.0	276.7	273.2	273.2
67.5°	268.6	261.6	246.5	240.7	234.9
70°	233.7	226.7	215.1	201.1	194.2
72.5°	201.1	193.0	182.5	161.6	154.6
75°	166.3	158.1	146.5	126.7	123.2
77.5°	132.5	125.6	109.3	104.6	107.0
80°	98.8	96.5	84.9	89.5	93.0
82.5°	66.3	65.1	67.4	69.8	69.8
85°	38.4	39.5	44.2	43.0	41.9
87.5°	16.3	19.8	18.6	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)