

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: P35091

Luminaire Tested: **22ENA-LD2-25HP-UNV-L827-CD1-SVPD1-U**

Test Date: 10/13/16

**Test Information**

Test Method: LM-79-08  
Report Number: P35091  
Test Lab: INNOVATION CENTER-P3  
Test Date: 10/13/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ENA-LD2-25HP-UNV-L827-CD1-SVPD1-U  
Description: ENCOUNTER AIR 2X2 LED TROFFER WITH SENSOR  
Light Source: (196) EATON 2700K LEDS  
EL232N098E827  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 420 mA  
OTi30W/PRG1050C/UNV/DIM/L

**Summary**

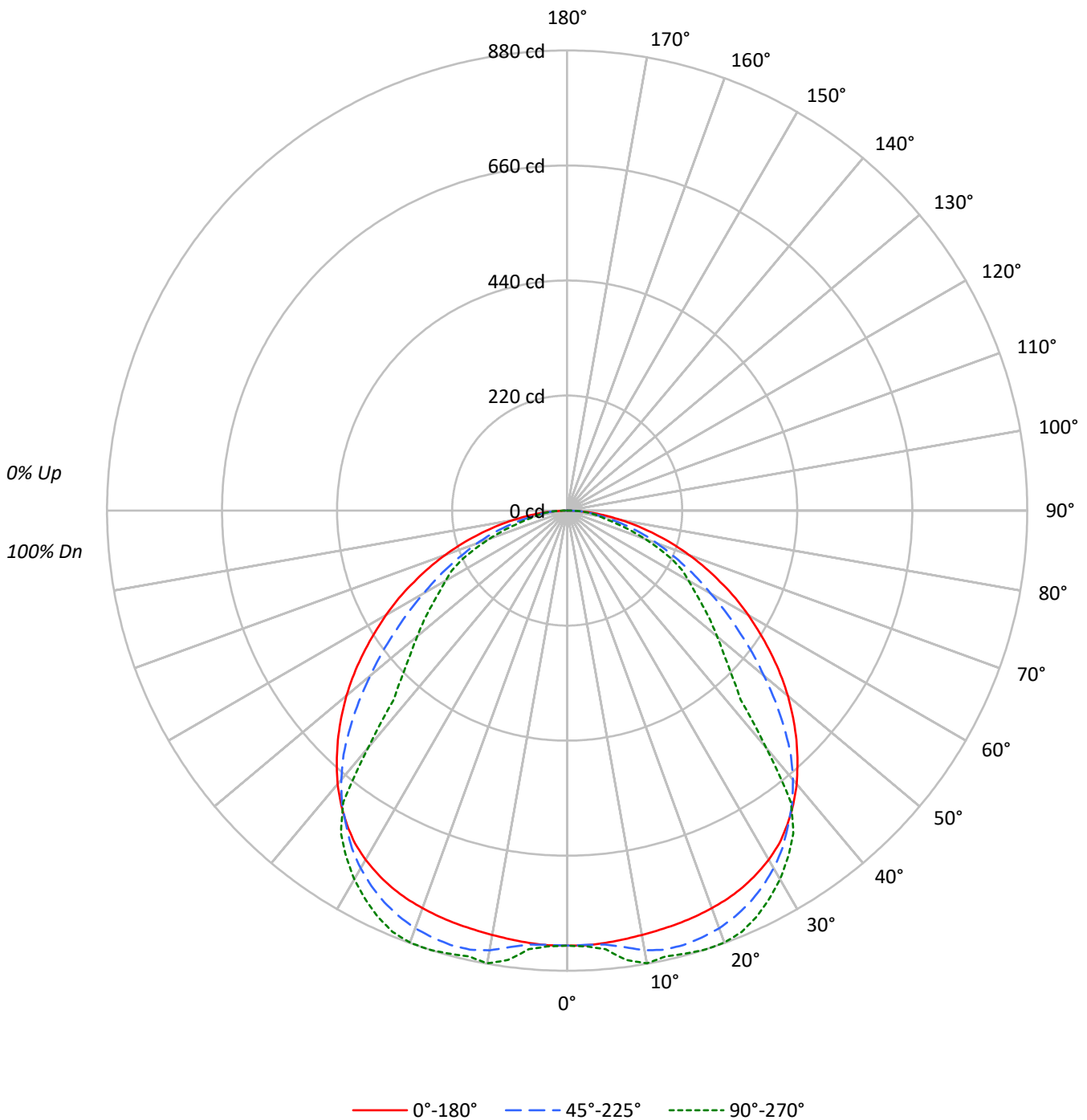
Lumens per Lamp: N/A  
Luminaire Lumens: 2384.8 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.4 / 1.4  
Luminous Opening: Rectangular (W 1.79' x L: 1.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.7  
Input Voltage (V): 277.0  
Input Current (Ain): 0.0830  
Voltage Rise (V): NR  
Power Factor: 0.9262  
Total Harmonic Distortion (THDi): 23.17%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 5 HR  
Ambient Temperature (°C): 24.2  
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	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2726	2726	2726
5°	2730	2740	2770
10°	2742	2842	2925
15°	2775	2918	2975
20°	2821	2964	3065
25°	2875	2990	3099
30°	2917	2989	3080
35°	2936	2944	3016
40°	2922	2875	2532
45°	2873	2720	2062
50°	2809	2503	1907
55°	2719	2285	1805
60°	2622	2078	1756
65°	2505	1907	1721
70°	2376	1753	1514
75°	2203	1570	1253
80°	1981	1340	1170
85°	1730	1354	1429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.4	3.4
10°-20°	241.3	10.1
20°-30°	380.9	16.0
30°-40°	459.6	19.3
40°-50°	431.9	18.1
50°-60°	354.9	14.9
60°-70°	255.5	10.7
70°-80°	138.6	5.8
80°-90°	41.7	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°	702.6	29.5
0°-40°	1162.2	48.7
0°-60°	1949.0	81.7
0°-90°	2384.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2384.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	830	830	833	839	842	79
15°	818	833	860	870	877	231
25°	795	808	827	849	857	367
35°	734	729	736	750	754	458
45°	620	604	587	509	445	478
55°	476	454	400	333	316	425
65°	323	296	246	218	222	321
75°	174	152	124	104	99	185
85°	46	39	36	36	38	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	832	832	832	832	832
2.5°	832	831	831	833	834
5°	830	830	833	839	842
7.5°	827	830	842	860	867
10°	824	831	854	874	879
12.5°	821	833	860	871	873
15°	818	833	860	870	877
17.5°	814	831	856	871	880
20°	809	826	850	869	879
22.5°	803	819	840	862	872
25°	795	808	827	849	857
27.5°	784	794	810	831	837
30°	771	777	790	807	814
32.5°	755	754	766	781	786
35°	734	729	736	750	754
37.5°	710	701	707	708	703
40°	683	670	672	643	592
42.5°	652	638	633	568	491
45°	620	604	587	509	445
47.5°	586	569	540	457	406
50°	551	532	491	408	374
52.5°	514	493	446	369	345
55°	476	454	400	333	316
57.5°	437	415	358	300	290
60°	400	374	317	271	268
62.5°	363	336	281	244	249
65°	323	296	246	218	222
67.5°	286	258	212	192	190
70°	248	221	183	161	158
72.5°	211	186	154	132	129
75°	174	152	124	104	99
77.5°	139	122	97	79	76
80°	105	93	71	62	62
82.5°	75	64	52	49	50
85°	46	39	36	36	38
87.5°	18	18	20	20	22
90°	0	0	0	0	0

(END OF REPORT)