

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: P35040

Luminaire Tested: **22EN-LD2-25-HP-UNV-L835-CD1-U**

Test Date: 09/24/16

**Test Information**

Test Method: LM-79-08  
Report Number: P35040  
Test Lab: INNOVATION CENTER-P3  
Test Date: 09/24/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-25-HP-UNV-L835-CD1-U  
Description: ENCOUNTER 2X2 LED TROFFER  
Light Source: (196) EATON 3500K LEDS  
EL232N098E835  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 420 mA  
OT50W/PRG1400C/UNV/DIM/L

**Summary**

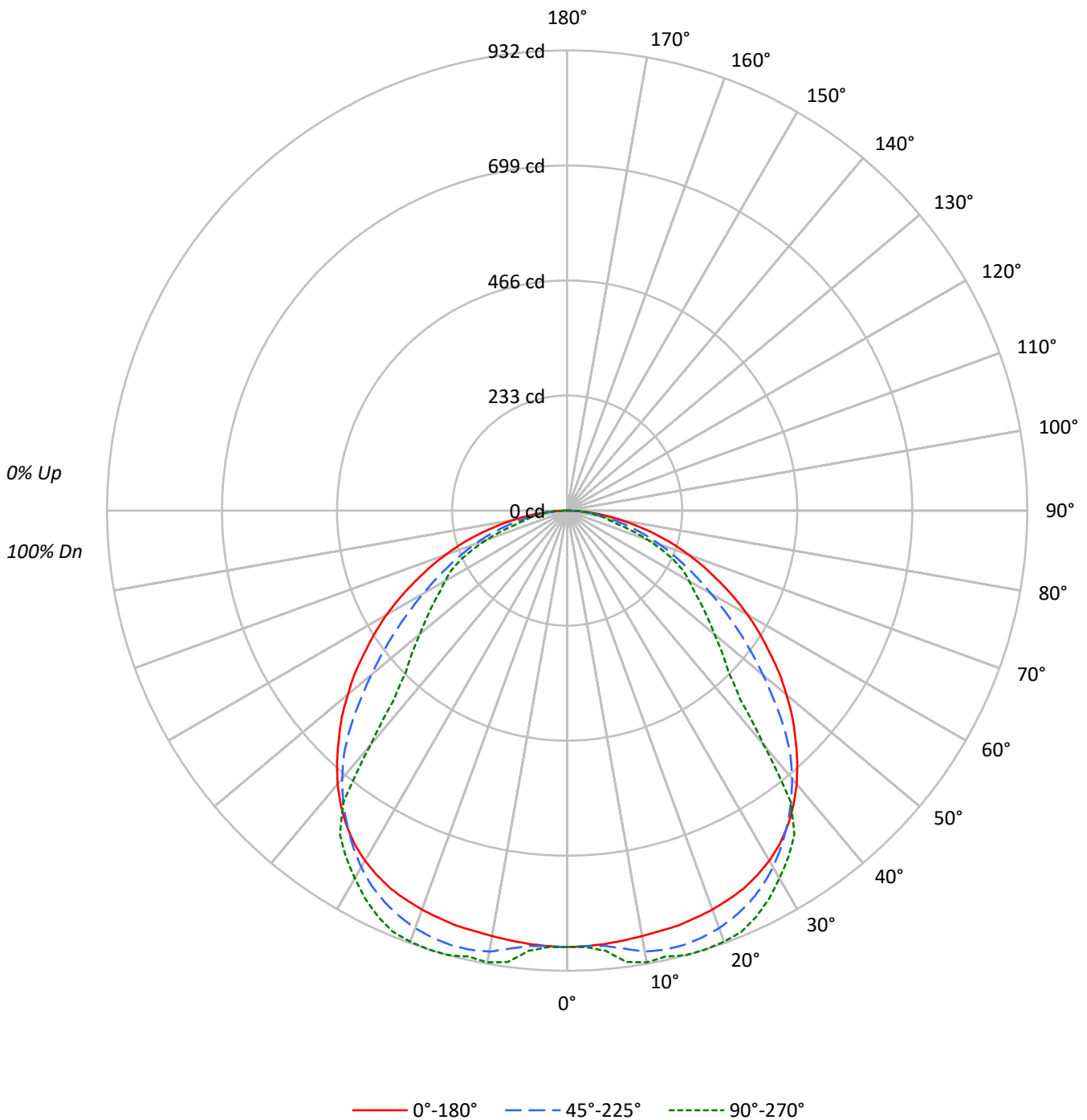
Lumens per Lamp: N/A  
Luminaire Lumens: 2526.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.4 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.3  
Input Voltage (V): 120.1  
Input Current (Ain): 0.162  
Voltage Rise (V): NR  
Power Factor: 0.9938  
Total Harmonic Distortion (THDi): 7.62%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 5 HR  
Ambient Temperature (°C): 24.9  
Test Distance: 25 FT



TEST NUMBER: P35040

CATALOG NUMBER: 22EN-LD2-25-HP-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P35040

CATALOG NUMBER: 22EN-LD2-25-HP-UNV-L835-CD1-U

**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	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
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	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	42	35	30	40	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°	2831	2831	2831
5°	2832	2845	2877
10°	2845	2949	3021
15°	2884	3020	3090
20°	2931	3067	3166
25°	2986	3092	3205
30°	3029	3084	3180
35°	3046	3038	3135
40°	3023	2964	2592
45°	2962	2813	2092
50°	2890	2581	1938
55°	2792	2362	1854
60°	2703	2158	1825
65°	2576	1993	1811
70°	2453	1854	1629
75°	2289	1695	1312
80°	2066	1439	1365
85°	1727	1433	1360



TEST NUMBER: P35040

CATALOG NUMBER: 22EN-LD2-25-HP-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	3.4
10°-20°	255.9	10.1
20°-30°	403.3	16.0
30°-40°	486.2	19.2
40°-50°	454.7	18.0
50°-60°	373.4	14.8
60°-70°	272.2	10.8
70°-80°	150.1	5.9
80°-90°	44.9	1.8
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°	744.5	29.5
0°-40°	1230.7	48.7
0°-60°	2058.7	81.5
0°-90°	2526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	881	882	885	891	895	84
15°	870	884	911	923	932	246
25°	845	857	875	898	907	389
35°	779	772	777	795	802	486
45°	654	634	621	534	462	505
55°	500	477	423	349	332	448
65°	340	313	263	235	239	337
75°	185	164	137	113	106	196
85°	47	40	39	37	37	55
90°	0	0	0	0	0	



TEST NUMBER: P35040

CATALOG NUMBER: 22EN-LD2-25-HP-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	884	884	884	884	884
2.5°	883	883	883	885	885
5°	881	882	885	891	895
7.5°	878	882	895	913	922
10°	875	884	907	925	929
12.5°	872	885	911	921	925
15°	870	884	911	923	932
17.5°	865	881	907	922	932
20°	860	877	900	919	929
22.5°	853	869	889	911	923
25°	845	857	875	898	907
27.5°	833	841	857	878	886
30°	819	822	834	854	860
32.5°	801	798	807	826	833
35°	779	772	777	795	802
37.5°	753	741	745	753	744
40°	723	707	709	675	620
42.5°	690	672	669	600	519
45°	654	634	621	534	462
47.5°	619	596	568	480	426
50°	580	558	518	430	389
52.5°	542	517	469	389	360
55°	500	477	423	349	332
57.5°	462	434	378	314	306
60°	422	395	337	287	285
62.5°	381	352	299	261	266
65°	340	313	263	235	239
67.5°	301	274	231	207	208
70°	262	234	198	176	174
72.5°	224	199	168	145	140
75°	185	164	137	113	106
77.5°	147	132	107	85	84
80°	112	101	78	72	74
82.5°	79	71	59	55	55
85°	47	40	39	37	37
87.5°	19	19	19	20	21
90°	0	0	0	0	0

(END OF REPORT)