

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: P35231

Luminaire Tested: **14EN-LD2-25HP-UNV-L835-CD1-U**

Test Date: 10/08/16

Test Information

Test Method: LM-79-08
Report Number: P35231
Test Lab: INNOVATION CENTER-P3
Test Date: 10/08/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-25HP-UNV-L835-CD1-U
Description: ENCOUNTER 1X4 LED TROFFER
Light Source: (392) EATON 3500K LEDS
EL232N098E835
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 460 mA
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.4 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.4 / 1.42
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

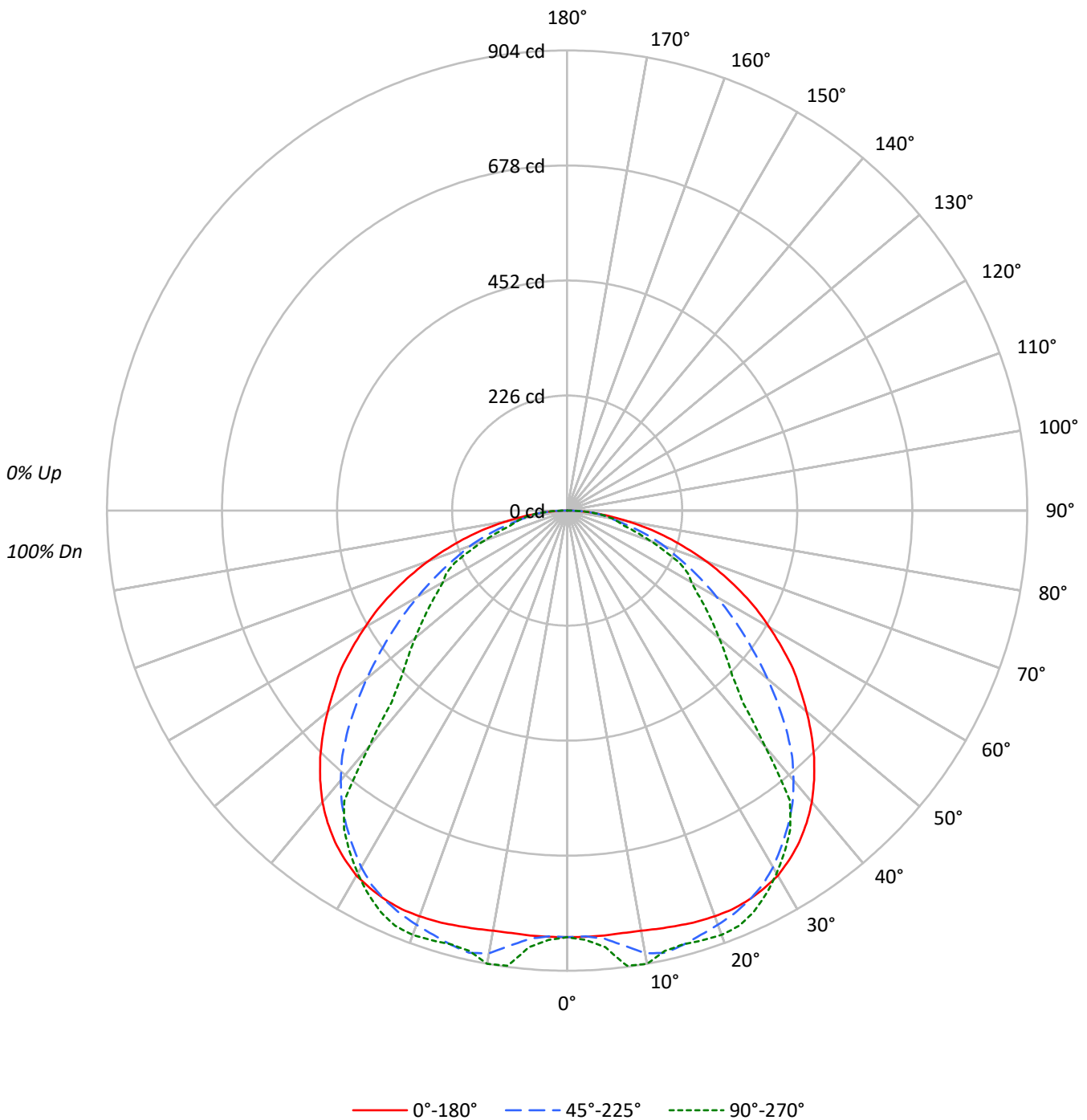
Input Watts (W): 20.4
Input Voltage (V): 120.0
Input Current (Ain): 0.172
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 7.98%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.5
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2824	2824	2824
5°	2834	2855	2912
10°	2867	3021	3093
15°	2944	3080	3077
20°	3041	3105	3181
25°	3138	3142	3231
30°	3222	3148	3202
35°	3270	3110	3143
40°	3290	3044	2661
45°	3269	2902	2187
50°	3219	2694	2044
55°	3184	2485	1945
60°	3093	2285	1900
65°	2998	2105	1945
70°	2857	2000	1714
75°	2656	1810	1510
80°	2348	1649	1766
85°	1972	1972	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.2
10°-20°	247.3	9.8
20°-30°	392.1	15.5
30°-40°	477.0	18.9
40°-50°	454.8	18.0
50°-60°	380.1	15.0
60°-70°	280.6	11.1
70°-80°	158.5	6.3
80°-90°	53.8	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°	721.5	28.6
0°-40°	1198.5	47.4
0°-60°	2033.5	80.5
0°-90°	2526.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	838	840	844	855	861	80
15°	844	865	883	880	882	239
25°	844	845	845	862	869	389
35°	795	770	756	764	764	497
45°	686	641	609	527	459	528
55°	542	489	423	349	331	482
65°	376	324	264	239	244	372
75°	204	169	139	119	116	216
85°	51	46	51	50	52	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	838	838	838	838	838
2.5°	838	838	837	842	844
5°	838	840	844	855	861
7.5°	837	845	862	888	902
10°	838	853	883	904	904
12.5°	841	861	890	888	886
15°	844	865	883	880	882
17.5°	847	864	874	878	885
20°	848	860	866	878	887
22.5°	848	855	857	875	883
25°	844	845	845	862	869
27.5°	837	831	830	843	848
30°	828	815	809	821	823
32.5°	813	795	783	793	795
35°	795	770	756	764	764
37.5°	773	742	727	726	719
40°	748	711	692	658	605
42.5°	718	677	654	588	510
45°	686	641	609	527	459
47.5°	651	606	561	474	423
50°	614	568	514	429	390
52.5°	577	529	467	386	359
55°	542	489	423	349	331
57.5°	500	448	380	316	304
60°	459	409	339	287	282
62.5°	419	366	301	263	268
65°	376	324	264	239	244
67.5°	333	284	230	212	207
70°	290	244	203	178	174
72.5°	246	206	171	148	143
75°	204	169	139	119	116
77.5°	163	134	108	100	103
80°	121	107	85	89	91
82.5°	83	73	71	73	73
85°	51	46	51	50	52
87.5°	23	25	26	27	29
90°	0	0	0	0	0

(END OF REPORT)