

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: P393676

Luminaire Tested: **24EN-LD2-70-UNV-L83050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393676
Test Lab: INNOVATION CENTER (G3)
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-70-UNV-L83050-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7012.4 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

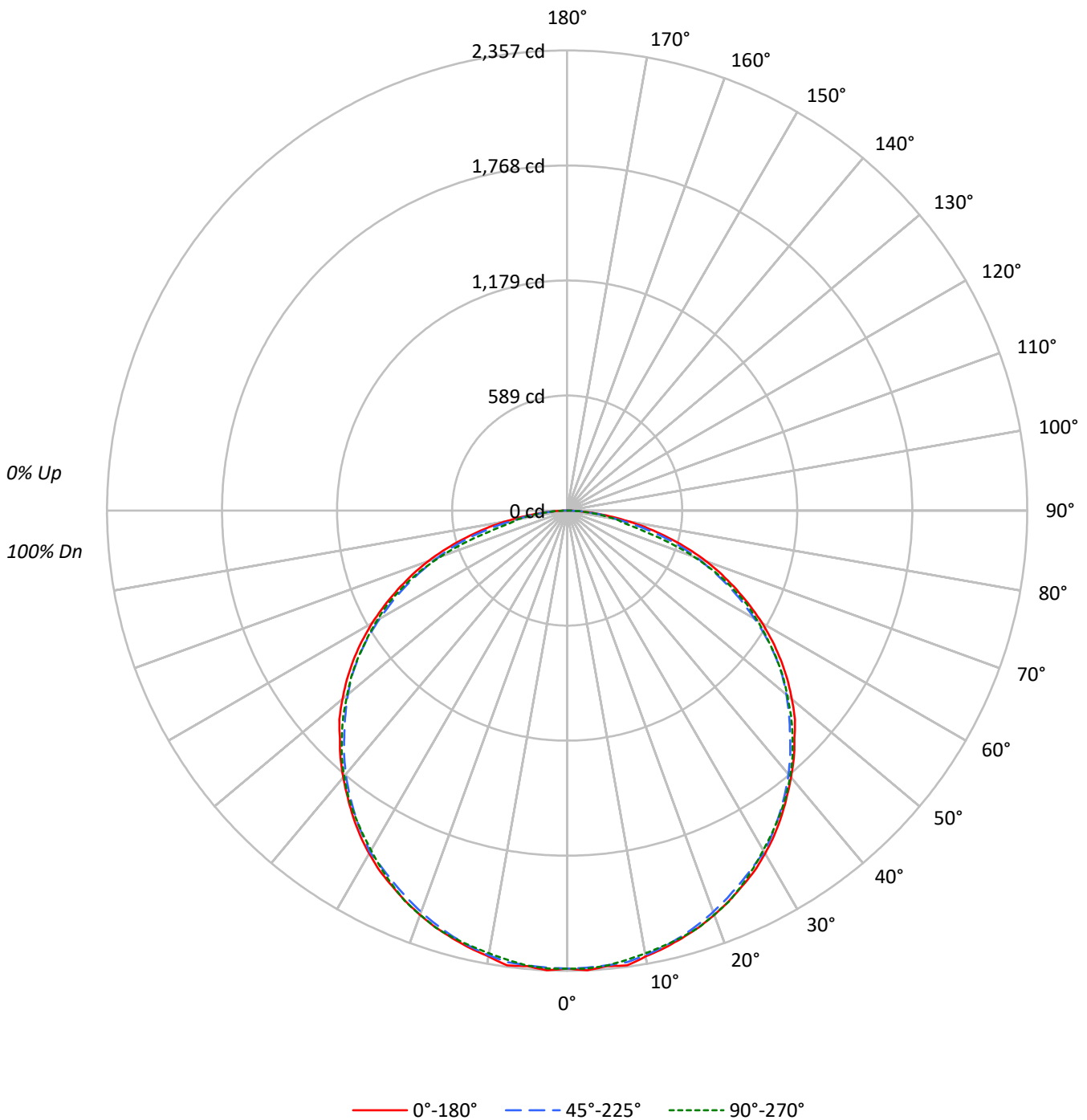
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3157	3157	3157
5°	3163	3158	3159
10°	3168	3160	3146
15°	3159	3147	3154
20°	3156	3133	3154
25°	3150	3122	3143
30°	3151	3137	3121
35°	3142	3116	3122
40°	3133	3098	3121
45°	3134	3071	3105
50°	3146	3069	3079
55°	3136	3054	3061
60°	3105	2984	3025
65°	3047	2897	2958
70°	2978	2781	2718
75°	2797	2573	2116
80°	2479	2007	1960
85°	1976	1806	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.4	3.2
10°-20°	637.9	9.1
20°-30°	974.0	13.9
30°-40°	1188.8	17.0
40°-50°	1256.7	17.9
50°-60°	1168.7	16.7
60°-70°	914.6	13.0
70°-80°	513.2	7.3
80°-90°	136.1	1.9
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°	1834.4	26.2
0°-40°	3023.2	43.1
0°-60°	5448.6	77.7
0°-90°	7012.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7012.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2342	2339	2338	2336	2339	224
15°	2268	2261	2259	2249	2264	641
25°	2122	2111	2103	2115	2117	979
35°	1913	1905	1897	1890	1901	1197
45°	1647	1634	1614	1624	1632	1273
55°	1337	1319	1302	1296	1305	1193
65°	957	936	910	915	929	947
75°	538	518	495	437	407	568
85°	128	119	117	109	108	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2346	2346	2346	2346	2346
2.5°	2357	2342	2343	2348	2348
5°	2342	2339	2338	2336	2339
7.5°	2350	2330	2333	2321	2322
10°	2319	2311	2313	2304	2303
12.5°	2296	2293	2288	2279	2284
15°	2268	2261	2259	2249	2264
17.5°	2239	2228	2225	2219	2239
20°	2204	2194	2188	2187	2203
22.5°	2165	2155	2146	2153	2167
25°	2122	2111	2103	2115	2117
27.5°	2080	2067	2059	2066	2065
30°	2028	2017	2019	2012	2009
32.5°	1974	1964	1959	1952	1955
35°	1913	1905	1897	1890	1901
37.5°	1848	1843	1832	1825	1842
40°	1784	1773	1764	1759	1777
42.5°	1719	1707	1691	1690	1709
45°	1647	1634	1614	1624	1632
47.5°	1583	1562	1540	1550	1555
50°	1503	1486	1466	1470	1471
52.5°	1422	1408	1389	1384	1393
55°	1337	1319	1302	1296	1305
57.5°	1247	1231	1209	1201	1213
60°	1154	1133	1109	1109	1124
62.5°	1056	1039	1010	1014	1036
65°	957	936	910	915	929
67.5°	858	837	806	813	819
70°	757	731	707	700	691
72.5°	648	624	608	570	555
75°	538	518	495	437	407
77.5°	430	417	380	312	300
80°	320	314	259	254	253
82.5°	218	214	197	183	180
85°	128	119	117	109	108
87.5°	44	48	47	48	47
90°	0	0	0	0	0

(END OF REPORT)