

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P147327

Luminaire Tested: **TLM-F01-LED-E1-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F01-LED-E1-5MQ-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

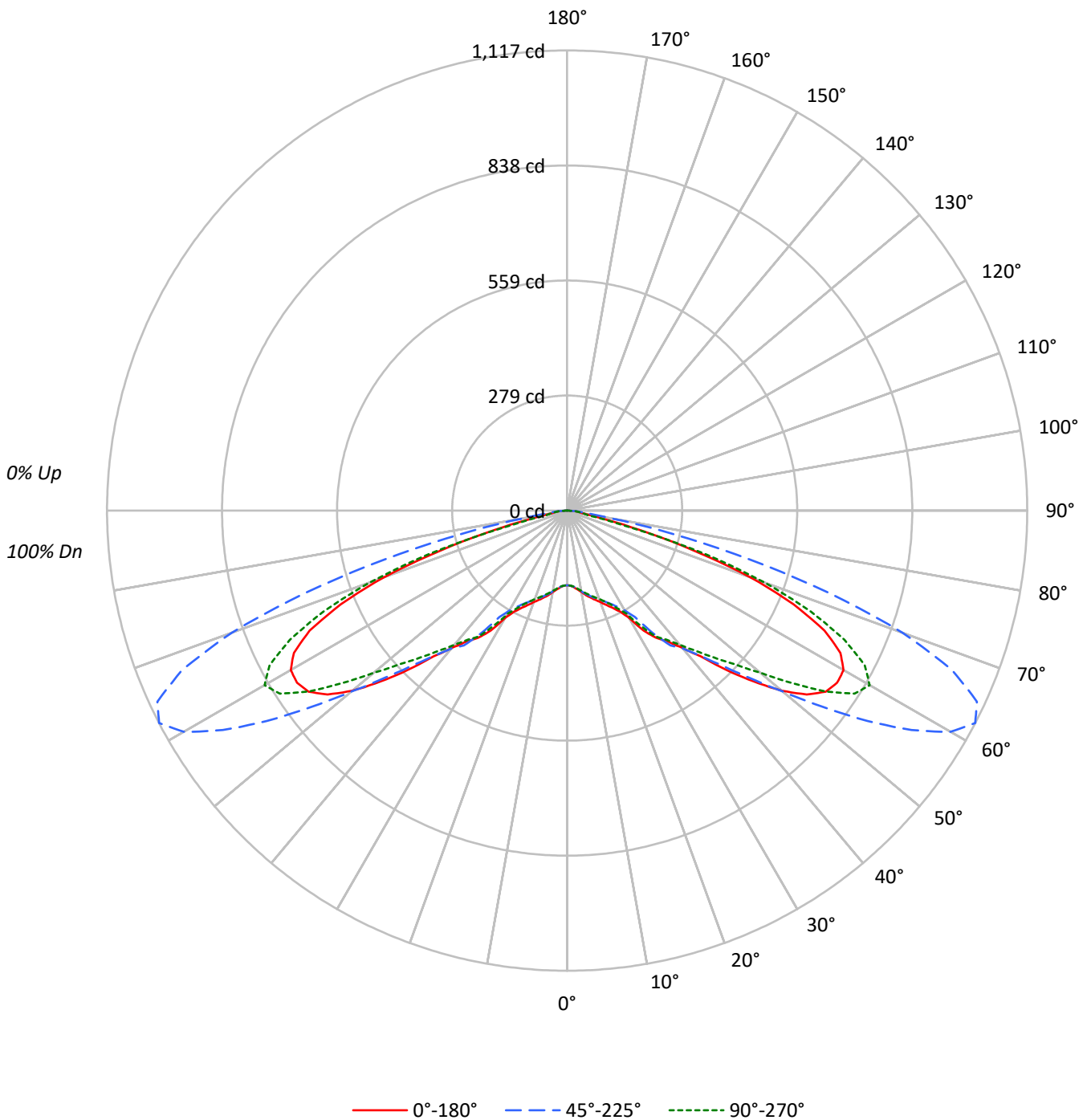
Lumens per Lamp: N/A
Luminaire Lumens: 2730.8 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 25.9
Input Voltage (V): NR
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	106	100	94	90	103	97	93	88	93	89	85	89	86	83	85	83	80	78
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	68	58	50	79	67	57	49	63	55	48	60	53	47	57	51	46	44
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	37	30	46	36	29	43	35	29	41	34	28	26
6	59	43	32	24	57	42	31	24	40	30	23	38	29	23	36	29	23	20
7	54	37	27	20	52	37	27	19	35	26	19	33	25	19	32	24	19	16
8	49	33	23	16	47	33	23	16	31	22	16	30	22	16	28	21	16	13
9	46	30	20	14	44	29	20	14	28	20	14	27	19	14	26	19	13	11
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11479	11479	11479
5°	11860	11797	11771
10°	12910	12769	12711
15°	14323	14054	13916
20°	15929	15538	15410
25°	18178	17438	17577
30°	21948	20479	21181
35°	29148	28074	28785
40°	35938	36046	35120
45°	48963	47566	45184
50°	66963	67308	60324
55°	84581	98269	84470
60°	98091	136018	107373
65°	103302	164444	111257
70°	87639	160283	94193
75°	44451	112534	38604
80°	14111	39088	14221
85°	15256	20342	15619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	0.7
10°-20°	61.4	2.2
20°-30°	118.7	4.3
30°-40°	229.9	8.4
40°-50°	415.1	15.2
50°-60°	721.8	26.4
60°-70°	819.4	30.0
70°-80°	317.7	11.6
80°-90°	28.7	1.0
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°	198.3	7.3
0°-40°	428.2	15.7
0°-60°	1565.0	57.3
0°-90°	2730.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2730.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	181	181	181	181	181	
5°	187	186	186	186	185	18
15°	218	217	214	213	212	62
25°	260	255	250	250	252	123
35°	377	370	363	370	372	236
45°	547	534	531	510	505	428
55°	766	803	890	792	765	675
65°	690	792	1098	852	743	657
75°	182	254	460	241	158	220
85°	21	30	28	30	22	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3
2.5°	182.4	183.0	182.9	182.6	182.6	182.6	182.4	182.0	181.8	182.2	182.4
5°	186.6	186.6	186.6	186.6	186.4	186.4	186.0	185.8	186.0	185.6	185.6
7.5°	193.2	192.7	192.7	192.6	192.6	192.3	191.8	191.3	191.4	191.3	191.1
10°	200.8	200.9	200.4	200.9	200.2	200.0	199.4	199.2	199.1	198.6	198.6
12.5°	209.9	209.5	209.5	209.2	209.0	208.6	207.8	207.6	207.1	206.8	206.4
15°	218.5	218.4	217.8	217.3	217.2	216.8	215.9	215.3	215.2	214.4	213.8
17.5°	227.2	226.9	226.2	225.9	225.3	224.9	224.0	223.2	222.8	222.5	221.8
20°	236.4	236.0	235.4	234.8	234.0	233.5	232.2	231.6	231.1	230.6	230.2
22.5°	247.8	247.2	246.1	245.1	243.6	243.0	241.3	240.3	239.6	239.0	238.8
25°	260.2	260.4	258.8	257.5	255.7	254.2	252.0	250.8	250.2	249.6	249.4
27.5°	275.8	275.9	274.4	272.6	269.8	268.1	265.2	263.9	263.4	262.9	262.8
30°	300.2	299.0	296.6	293.6	291.1	287.5	283.4	281.9	280.5	280.1	280.1
32.5°	345.5	344.8	342.8	335.5	332.0	324.4	317.2	313.1	308.5	306.2	304.8
35°	377.1	376.8	375.2	372.7	370.6	369.0	364.8	364.1	363.2	363.2	364.4
37.5°	400.3	398.7	398.4	398.8	398.2	398.6	402.0	406.6	410.6	412.6	412.2
40°	434.8	432.4	433.8	432.8	431.6	431.3	432.4	434.2	436.1	436.1	435.7
42.5°	479.9	481.0	481.6	477.4	474.8	474.0	476.8	476.2	478.0	477.4	475.5
45°	546.8	546.1	545.1	540.2	535.9	532.5	533.2	532.2	532.4	531.2	529.8
47.5°	614.3	616.6	612.6	610.2	605.4	603.0	605.0	603.2	606.5	600.6	597.8
50°	679.8	681.4	680.1	676.6	676.7	680.0	682.5	685.6	690.1	683.3	673.2
52.5°	733.4	734.8	737.0	739.8	746.7	753.9	764.1	775.0	783.6	782.3	770.7
55°	766.2	767.9	771.4	781.2	793.6	812.5	835.5	860.8	880.6	890.2	881.6
57.5°	777.2	778.4	788.0	799.8	819.2	847.2	885.8	929.4	967.4	991.5	987.7
60°	774.6	774.7	784.4	800.5	827.6	864.8	919.4	979.8	1038.0	1074.1	1068.7
62.5°	748.0	749.4	763.3	782.7	815.4	860.1	925.0	1002.2	1071.8	1116.7	1112.4
65°	689.5	690.5	705.6	728.6	765.2	818.0	889.0	974.6	1054.3	1097.6	1089.4
67.5°	595.0	596.1	608.3	634.3	673.0	728.2	804.8	899.0	977.1	1011.2	986.7
70°	473.4	476.2	484.1	511.6	541.0	595.0	665.6	759.8	833.6	865.8	838.8
72.5°	322.6	329.8	339.4	363.8	391.9	436.8	493.0	572.3	631.4	668.9	644.8
75°	181.7	191.9	194.8	213.3	236.5	271.9	313.0	369.9	429.6	460.0	430.8
77.5°	78.5	86.9	90.5	99.1	117.2	132.0	157.0	195.4	241.6	262.8	228.0
80°	38.7	40.6	42.2	44.8	50.0	54.8	66.6	83.4	102.4	107.2	85.3
82.5°	29.9	31.4	34.0	36.2	37.4	38.7	39.8	42.1	43.9	44.9	42.4
85°	21.0	22.9	25.8	28.2	29.6	30.6	31.6	32.4	30.6	28.0	29.4
87.5°	5.5	7.2	10.0	10.9	12.2	13.0	12.7	13.2	11.8	8.6	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3
2.5°	182.2	182.1	182.3	182.2	182.2	182.1	182.1	182.1
5°	185.5	185.6	185.6	185.4	185.4	185.6	185.4	185.2
7.5°	191.0	190.9	190.9	190.8	190.9	190.8	190.8	190.6
10°	198.4	198.0	198.2	197.8	197.8	197.6	197.6	197.7
12.5°	206.2	205.8	206.0	205.6	204.8	205.0	205.2	205.0
15°	213.9	213.4	213.0	212.8	212.4	212.5	212.4	212.3
17.5°	221.6	220.8	220.6	220.2	220.1	220.1	220.1	220.2
20°	229.7	229.2	229.0	228.6	228.4	228.8	229.0	228.7
22.5°	238.3	238.0	238.3	238.0	238.4	238.7	238.8	238.6
25°	249.2	248.9	249.4	250.3	250.8	251.2	251.8	251.6
27.5°	263.2	262.8	263.8	265.2	266.1	267.6	268.2	268.5
30°	281.2	282.5	283.0	285.8	286.4	288.7	288.8	289.7
32.5°	307.5	309.9	314.1	318.5	324.6	329.0	329.0	331.2
35°	365.1	366.0	369.3	370.0	371.3	372.7	371.3	372.4
37.5°	409.3	404.9	401.8	397.4	394.7	394.7	395.0	394.7
40°	431.8	430.2	428.8	425.1	424.5	424.4	424.4	424.9
42.5°	472.2	468.2	465.8	462.8	461.8	461.5	461.4	461.7
45°	524.8	518.2	512.0	509.0	506.3	503.7	504.6	504.6
47.5°	585.8	575.6	565.7	560.3	555.7	553.6	552.2	551.7
50°	660.3	645.9	633.2	623.2	616.4	616.2	617.0	612.4
52.5°	751.5	728.8	713.0	699.4	693.0	692.4	690.0	687.5
55°	852.6	825.6	799.5	785.0	776.6	772.1	769.4	765.2
57.5°	956.8	920.5	883.0	859.6	845.0	834.8	829.4	827.0
60°	1037.1	987.6	938.0	900.6	876.2	861.1	851.7	847.9
62.5°	1068.8	1001.5	938.0	888.8	853.6	832.7	820.1	814.6
65°	1031.0	951.4	879.1	825.0	785.5	762.2	748.5	742.6
67.5°	925.7	855.4	776.8	722.8	682.4	659.3	644.5	640.1
70°	776.0	704.2	629.1	581.0	544.8	526.0	510.6	508.8
72.5°	583.2	521.2	456.8	417.0	388.0	356.9	349.0	352.9
75°	373.8	315.8	258.5	222.6	196.1	166.4	155.0	157.8
77.5°	177.0	137.1	98.9	76.5	64.2	54.9	52.5	51.1
80°	65.6	53.2	47.0	44.6	42.9	41.4	40.2	39.0
82.5°	42.5	41.6	40.2	39.8	38.6	36.6	32.9	31.3
85°	31.8	31.8	30.1	30.2	29.2	26.7	23.3	21.5
87.5°	9.3	8.3	7.6	7.1	6.9	6.2	4.5	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)