

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: CORELITE

Report Number: CTL58818

Luminaire Tested: **NB-SW-1T5-DL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58818
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-1T5-DL2
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT

Light Source: 54 WATT T5 LAMP
FP54T5/835HO. LUMEN RATING = 5000 LMS.
Ballast/Driver: -

Summary

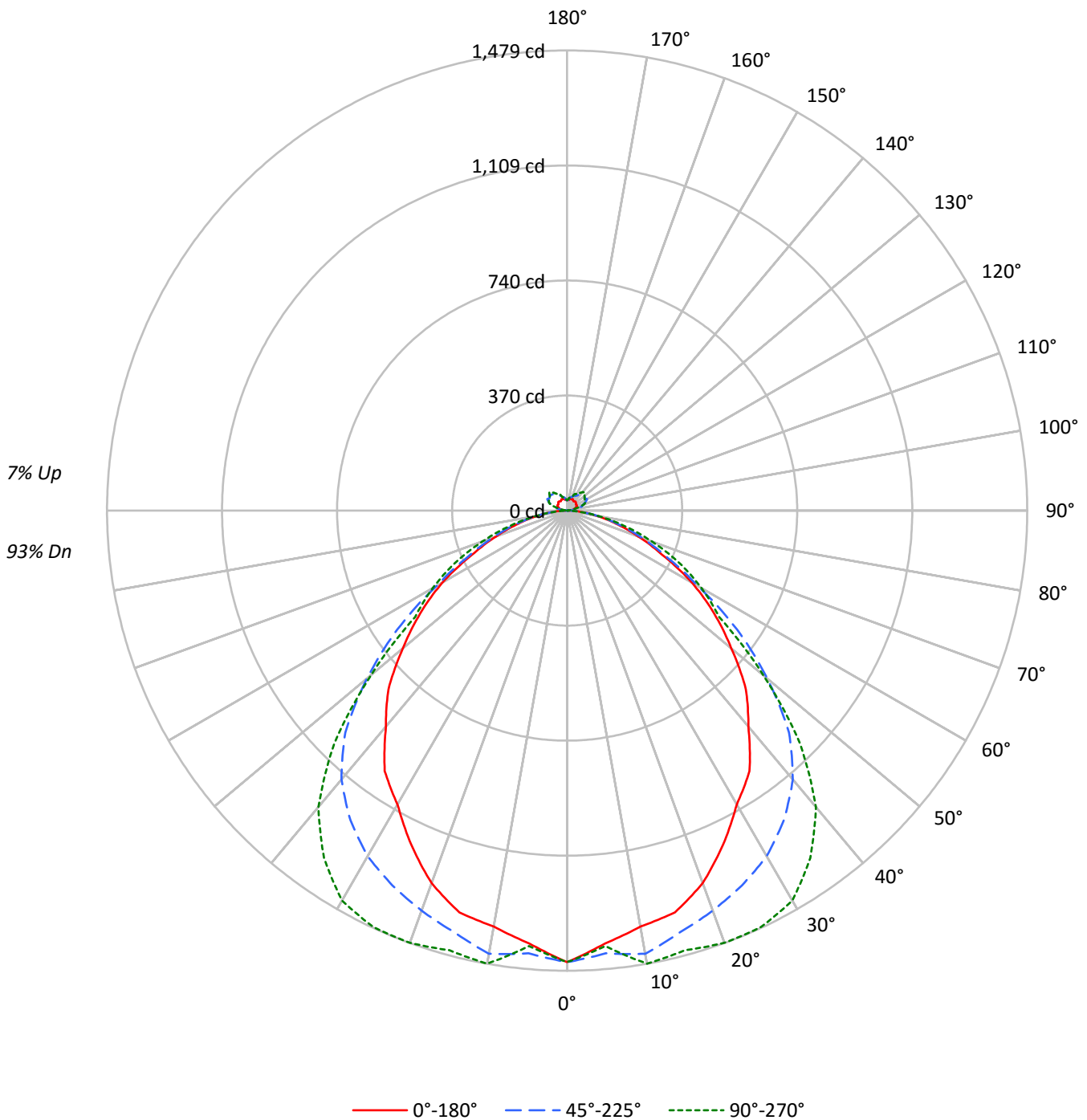
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4101.7 lumens
Efficiency: 82.0%
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.43 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	96	96	96	96	93	93	93	93	88	88	88	83	83	83	78	78	78	76																			
1	89	85	82	79	86	83	80	77	78	76	74	74	72	70	70	69	67	65																			
2	81	75	70	65	78	73	68	64	69	65	62	65	62	59	62	60	57	55																			
3	74	66	60	55	72	64	59	54	61	56	52	58	54	51	55	52	49	47																			
4	68	59	52	47	66	57	51	46	55	49	45	52	48	44	50	46	43	41																			
5	63	53	46	41	61	52	45	40	49	43	39	47	42	38	45	41	37	35																			
6	58	48	41	36	56	47	40	35	45	39	34	43	38	34	41	36	33	31																			
7	54	43	36	31	52	42	36	31	41	35	31	39	34	30	37	33	29	28																			
8	50	39	33	28	49	39	32	28	37	31	27	36	31	27	34	30	26	25																			
9	47	36	30	25	45	35	29	25	34	29	25	33	28	24	32	27	24	22																			
10	44	33	27	23	43	33	27	23	32	26	22	30	25	22	29	25	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5207	5207	5207
5°	5005	5027	4922
10°	4893	5031	5101
15°	4889	4863	5006
20°	4762	4760	5057
25°	4565	4677	5087
30°	4367	4601	5063
35°	4297	4479	4878
40°	4041	4314	4595
45°	3891	4036	4073
50°	3589	3553	3329
55°	3326	3014	2561
60°	3007	2373	2305
65°	2536	1899	2001
70°	2192	1537	1611
75°	1840	1186	1202
80°	1475	810	745
85°	1053	363	277



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	136.5	3.3	2.7
10°-20°	396.3	9.7	7.9
20°-30°	617.2	15.0	12.3
30°-40°	750.7	18.3	15.0
40°-50°	739.9	18.0	14.8
50°-60°	569.2	13.9	11.4
60°-70°	367.0	8.9	7.3
70°-80°	186.9	4.6	3.7
80°-90°	47.0	1.1	0.9
90°-100°	10.9	0.3	0.2
100°-110°	40.2	1.0	0.8
110°-120°	57.2	1.4	1.1
120°-130°	56.5	1.4	1.1
130°-140°	49.9	1.2	1.0
140°-150°	36.6	0.9	0.7
150°-160°	23.7	0.6	0.5
160°-170°	12.4	0.3	0.2
170°-180°	3.6	0.1	0.1
0°-30°	1150.0	28.0	23.0
0°-40°	1900.7	46.3	38.0
0°-60°	3209.8	78.3	64.2
0°-90°	3810.7	92.9	76.2
90°-120°	108.4	2.6	2.2
90°-150°	251.3	6.1	5.0
90°-180°	291.0	7.1	5.8
0°-180°	4101.7	100.0	82.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1397	1416	1428	1469	1405	133
15°	1337	1345	1403	1434	1463	375
25°	1185	1254	1329	1438	1476	546
35°	1022	1093	1214	1316	1363	633
45°	813	886	1009	1033	1059	622
55°	577	640	666	618	596	516
65°	337	363	352	381	397	341
75°	162	171	171	176	190	175
85°	43	39	36	33	31	47
90°	5	3	1	0	1	9
95°	15	13	6	5	4	13
105°	26	41	47	42	32	28
115°	33	51	65	68	65	33
125°	35	53	69	75	68	32
135°	40	50	72	77	82	30
145°	36	48	60	70	68	23
155°	41	44	53	58	59	18
165°	42	40	44	45	44	11
175°	35	38	34	39	36	3
180°	33	33	33	33	33	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.2	1451.2	1451.2	1451.2	1451.2
5°	1396.8	1416.0	1428.5	1468.8	1404.8
10°	1357.3	1395.4	1446.3	1435.6	1478.8
15°	1337.4	1345.4	1403.1	1434.2	1463.0
20°	1274.4	1331.7	1368.2	1459.3	1478.4
25°	1185.4	1253.6	1329.1	1438.1	1476.3
30°	1090.4	1187.6	1282.6	1395.5	1447.4
35°	1022.2	1092.7	1214.5	1315.9	1362.6
40°	906.2	999.5	1128.4	1197.1	1244.0
45°	812.7	886.2	1008.7	1032.9	1059.0
50°	688.8	779.2	840.0	835.2	823.4
55°	577.1	640.5	666.4	617.7	596.2
60°	462.5	509.4	484.2	482.8	498.8
65°	337.1	362.9	352.3	381.0	397.0
70°	243.3	254.1	254.5	276.2	288.3
75°	162.4	171.0	171.1	176.0	190.1
80°	95.6	98.6	98.8	99.1	101.4
85°	43.1	38.6	35.8	32.8	31.3
90°	4.8	2.6	1.1	0.5	0.8
95°	15.0	13.0	6.2	5.3	3.5
100°	21.7	27.1	24.2	17.6	11.9
105°	26.0	40.7	47.1	41.5	32.2
110°	32.7	47.1	54.3	61.3	57.2
115°	32.7	50.6	65.0	67.9	65.2
120°	35.4	53.4	73.7	72.3	66.7
125°	35.0	53.3	69.0	75.0	67.6
130°	36.5	51.7	73.5	80.9	72.3
135°	39.7	49.9	71.9	76.7	81.6
140°	38.7	49.0	68.8	75.0	77.4
145°	35.9	47.6	60.5	70.0	68.3
150°	38.4	46.9	54.0	67.5	61.0
155°	41.4	43.8	53.4	58.0	59.3
160°	38.4	46.2	47.6	50.5	46.8
165°	42.0	39.7	44.1	44.7	43.5
170°	34.6	41.4	41.4	44.5	41.6
175°	34.7	38.1	33.6	38.8	36.3
180°	33.4	33.4	33.4	33.4	33.4

(END OF REPORT)