

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: NEO-RAY

Report Number: P199557

Luminaire Tested: **S125-DIP-ULO-1-35-X-X0048-1D-UDD-1-5-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199557
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P27900 P27900)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125-DIP-ULO-1-35-X-X0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LLO-3500K, SATIN WHITE DIFFUSER
DOWNLIGHT LL1-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4373.1 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4.08' x H: 0.38')
CIE Type: Semi-Direct

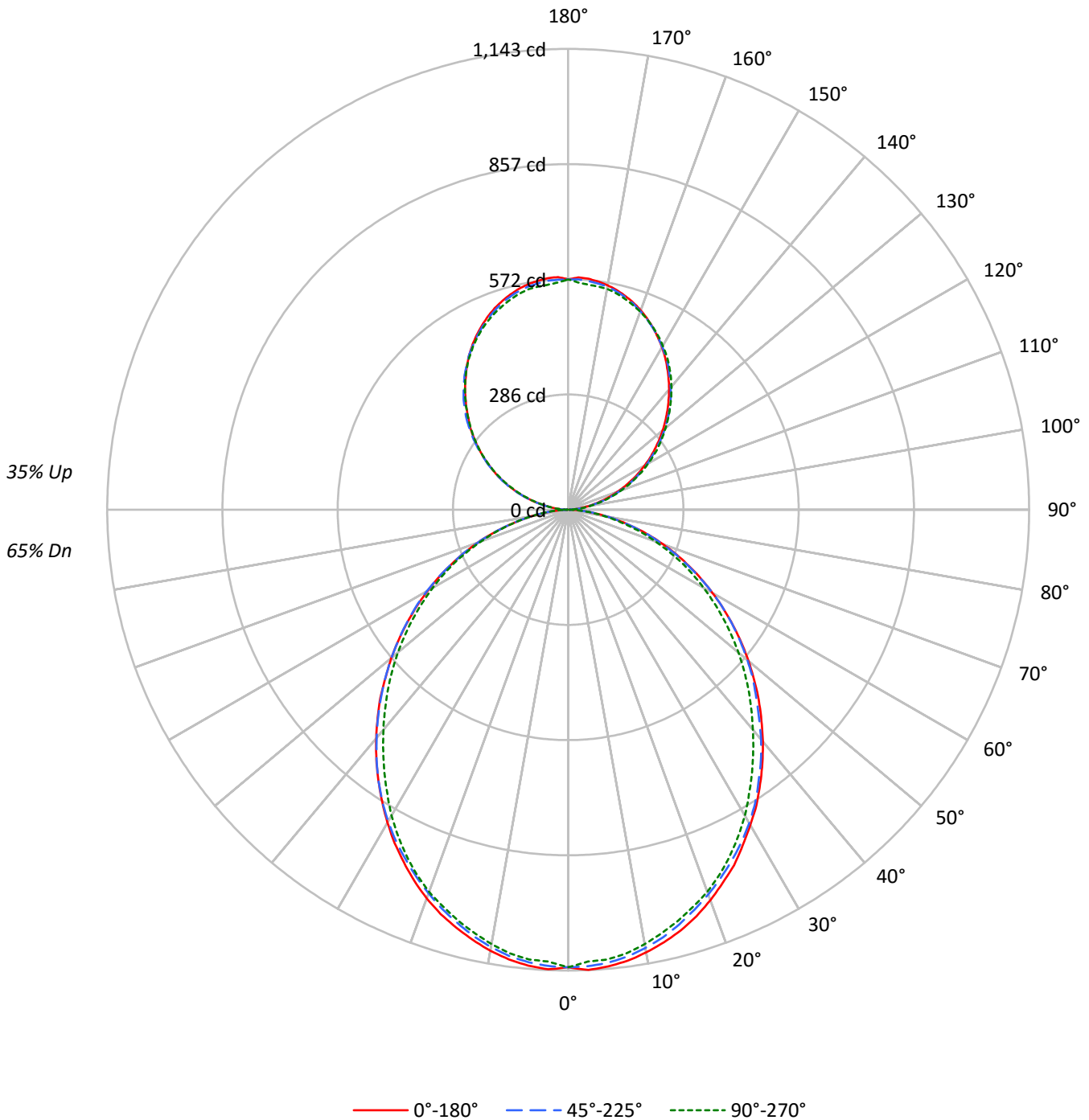
Input Watts (W): 40.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	101	97	93	89	95	91	88	85	81	78	76	71	69	67	62	60	59	55
2	92	85	78	73	86	80	74	70	71	66	63	62	59	56	55	52	50	46
3	84	75	67	61	79	70	64	58	62	57	53	55	51	48	48	45	43	39
4	77	66	58	52	72	62	55	50	56	50	45	49	45	41	43	40	37	34
5	71	59	51	45	66	56	48	43	50	44	39	44	39	36	39	35	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26
7	61	48	40	34	57	46	38	33	41	35	30	37	31	28	32	28	25	23
8	56	44	36	30	53	42	34	29	37	31	27	33	28	25	30	26	23	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7180	7180	7180
5°	7163	6591	7150
10°	7047	6065	7021
15°	6904	5567	6860
20°	6715	5114	6683
25°	6514	4662	6458
30°	6264	4214	6216
35°	6023	3765	5953
40°	5757	3353	5677
45°	5476	2977	5395
50°	5176	2616	5077
55°	4856	2263	4741
60°	4512	1917	4391
65°	4135	1583	3987
70°	3693	1228	3518
75°	3098	873	2884
80°	2345	543	2146
85°	1402	237	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	2.4
10°-20°	299.6	6.9
20°-30°	440.2	10.1
30°-40°	508.4	11.6
40°-50°	503.9	11.5
50°-60°	437.0	10.0
60°-70°	319.2	7.3
70°-80°	174.4	4.0
80°-90°	45.3	1.0
90°-100°	28.5	0.7
100°-110°	102.3	2.3
110°-120°	182.0	4.2
120°-130°	242.6	5.5
130°-140°	274.5	6.3
140°-150°	271.2	6.2
150°-160°	229.6	5.3
160°-170°	153.8	3.5
170°-180°	54.0	1.2
0°-30°	846.5	19.4
0°-40°	1354.8	31.0
0°-60°	2295.7	52.5
0°-90°	2834.8	64.8
90°-120°	312.7	7.2
90°-150°	1101.0	25.2
90°-180°	1538.0	35.2
0°-180°	4373.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1135	1135	1135	1135	1135	
5°	1137	1128	1120	1127	1135	108
15°	1080	1065	1055	1061	1073	304
25°	973	960	948	956	965	447
35°	830	823	795	820	820	519
45°	668	659	632	656	658	515
55°	498	497	469	488	486	446
65°	331	328	310	320	319	328
75°	170	169	156	159	158	181
85°	40	42	37	37	35	45
90°	1	3	1	2	1	4
95°	20	23	26	27	25	22
105°	87	94	97	101	99	93
115°	174	182	184	188	187	173
125°	262	269	273	277	274	235
135°	348	356	357	364	356	268
145°	428	433	436	439	438	268
155°	498	497	499	502	505	229
165°	549	546	542	549	553	155
175°	575	570	560	570	577	55
180°	571	571	571	571	571	



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CATALOG NUMBER: S125-DIP-ULO-1-35-X-X0048-1D-UDD-1-5-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9	1134.9
2.5°	1142.6	1130.8	1133.5	1131.4	1121.7	1130.1	1132.8	1128.7	1141.2
5°	1137.0	1125.2	1128.0	1125.2	1119.6	1123.8	1126.6	1122.4	1134.9
7.5°	1128.7	1116.2	1118.3	1115.5	1109.9	1113.4	1116.9	1112.7	1125.2
10°	1114.8	1103.0	1103.7	1100.2	1093.9	1098.1	1101.6	1098.1	1110.6
12.5°	1098.8	1086.3	1086.3	1080.7	1075.2	1078.7	1083.5	1080.7	1093.2
15°	1080.0	1066.9	1064.8	1061.3	1055.0	1059.2	1061.3	1060.6	1073.1
17.5°	1057.1	1043.2	1040.5	1039.8	1032.1	1037.7	1038.4	1036.3	1051.6
20°	1030.7	1017.5	1015.5	1014.8	1008.5	1012.7	1012.7	1009.9	1025.9
22.5°	1001.6	989.1	988.4	987.0	980.0	984.9	984.9	980.7	996.7
25°	973.1	957.8	959.9	956.4	948.1	955.0	955.7	948.8	964.8
27.5°	937.7	925.9	930.0	923.8	912.7	921.7	925.9	915.4	932.1
30°	902.9	890.4	897.4	886.3	876.5	884.9	892.5	879.3	896.0
32.5°	868.9	854.3	862.7	848.8	834.9	845.3	857.8	845.3	858.5
35°	830.0	818.2	823.1	808.5	794.6	805.0	820.3	808.5	820.3
37.5°	791.1	781.4	784.9	767.5	753.6	764.0	780.0	771.0	781.4
40°	750.8	743.9	743.9	726.5	712.6	722.3	739.0	734.2	740.4
42.5°	709.2	706.4	700.8	685.5	672.3	682.1	698.0	696.6	699.4
45°	668.2	668.2	659.1	643.2	632.1	641.1	655.7	659.1	658.4
47.5°	625.8	629.3	621.6	604.3	591.8	600.8	614.0	620.2	613.3
50°	583.4	589.7	580.0	564.7	550.8	560.5	571.6	580.0	572.3
52.5°	541.1	548.7	538.3	523.7	509.8	518.8	530.0	539.7	530.0
55°	498.0	507.0	497.3	482.0	468.8	477.2	488.3	498.0	486.2
57.5°	455.6	464.0	455.6	440.4	427.9	435.5	447.3	454.9	444.5
60°	413.3	422.3	414.0	399.4	387.6	393.8	404.9	412.6	402.2
62.5°	371.6	379.2	370.2	358.4	349.4	352.1	362.6	371.6	360.5
65°	330.6	337.6	327.8	317.4	309.8	311.2	320.2	325.1	318.8
67.5°	290.3	298.0	287.6	277.8	268.8	271.6	279.2	286.2	278.5
70°	250.0	257.7	246.6	238.2	230.6	232.0	238.2	245.9	238.2
72.5°	210.5	216.7	209.1	199.3	193.8	195.2	198.6	205.6	198.0
75°	170.2	177.1	168.8	161.1	155.6	157.0	159.1	164.6	158.4
77.5°	132.7	137.5	132.0	125.7	122.2	122.9	123.6	127.8	122.2
80°	97.9	102.1	98.6	93.8	91.0	91.0	91.0	94.5	89.6
82.5°	66.7	70.8	68.1	64.6	62.5	60.4	61.8	64.6	60.4
85°	39.6	43.1	41.7	38.2	36.8	35.4	36.8	38.2	34.7
87.5°	18.1	20.8	18.8	15.3	13.9	12.5	12.5	14.6	11.8
90°	1.4	3.5	2.8	2.1	1.4	1.4	2.1	2.8	1.4
92.5°	6.8	9.3	9.3	8.2	10.0	11.4	13.9	13.9	12.1
95°	19.6	22.1	23.2	23.9	25.7	26.4	27.1	27.1	25.0
97.5°	33.5	37.1	37.8	38.9	41.0	41.4	42.5	42.8	40.3
100°	49.3	53.5	54.2	55.7	58.2	58.5	60.0	60.7	58.2
102.5°	67.1	72.1	73.2	74.2	76.0	77.4	79.2	80.3	77.4
105°	86.7	92.8	93.5	94.9	97.1	98.5	100.6	101.4	98.9
107.5°	108.5	113.1	115.3	116.0	118.1	119.6	122.4	122.8	120.6
110°	129.9	134.2	137.0	137.8	139.9	141.3	144.2	144.2	142.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	152.0	156.7	159.2	159.9	162.4	163.5	166.3	166.7	164.9
115°	174.5	178.8	181.7	182.4	184.5	185.9	188.4	189.2	187.4
117.5°	197.0	201.3	203.4	204.9	207.4	208.4	209.9	210.9	209.1
120°	218.8	223.1	224.8	227.0	229.5	230.6	232.7	232.0	230.9
122.5°	240.9	244.8	246.6	249.1	252.0	252.3	253.8	253.4	252.7
125°	262.3	265.5	268.7	270.2	273.4	273.4	277.3	274.1	274.1
127.5°	284.1	286.6	290.9	291.6	294.4	294.8	299.4	294.8	295.9
130°	305.5	307.3	313.0	313.0	315.1	315.9	321.9	315.5	316.9
132.5°	326.6	328.0	334.8	334.1	336.2	336.9	343.7	336.2	335.8
135°	347.6	348.3	356.2	355.1	357.3	358.3	364.4	356.2	356.5
137.5°	368.3	368.0	376.2	375.8	378.0	378.7	384.4	374.7	377.2
140°	389.4	386.9	395.4	396.2	398.3	399.0	402.9	395.4	397.6
142.5°	408.7	407.6	414.0	415.1	417.9	417.9	421.5	414.0	416.9
145°	428.3	425.8	432.9	432.9	436.1	435.8	438.6	433.6	437.6
147.5°	447.6	444.3	450.4	450.8	453.6	453.6	456.1	451.1	456.1
150°	465.0	462.2	466.5	466.8	469.7	469.3	471.8	469.3	473.6
152.5°	481.8	479.0	481.8	481.5	485.0	484.0	487.2	485.0	490.0
155°	497.9	494.7	497.2	495.7	498.6	498.2	501.8	501.1	505.0
157.5°	512.5	508.9	511.1	509.3	511.1	511.4	515.4	515.0	519.3
160°	526.1	522.5	523.9	520.7	522.5	522.9	527.9	527.9	532.1
162.5°	538.2	534.3	535.7	530.7	532.5	532.5	538.9	538.9	543.2
165°	548.6	545.0	546.1	540.0	541.8	542.1	548.6	548.9	552.8
167.5°	557.8	553.9	554.3	548.6	550.0	550.3	556.0	556.8	561.4
170°	565.0	561.4	561.4	555.0	556.0	556.4	562.5	563.5	568.2
172.5°	570.7	566.8	566.0	559.3	558.5	560.3	566.4	568.5	572.8
175°	575.0	570.7	569.6	562.8	560.3	563.9	570.0	571.8	576.7
177.5°	576.7	572.5	571.8	564.6	564.3	565.3	571.0	573.2	577.5
180°	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0

(END OF REPORT)