

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: P199569

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199569
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-LO-35-X-X0048-1D-UDD-1-5-W
Description: DEFINE 5-INCH DIRECT/INDIRECT PENDANT LED LUMINAIRE
UPLIGHT LLO-3500K, SATIN WHITE DIFFUSER
DOWNLIGHT LLO-3500K, SATIN WHITE DIFFUSER
Light Source: -
757G
Ballast/Driver: ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2994.8 lumens
Efficiency: N/A
Efficacy: 111.3 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: General Diffuse

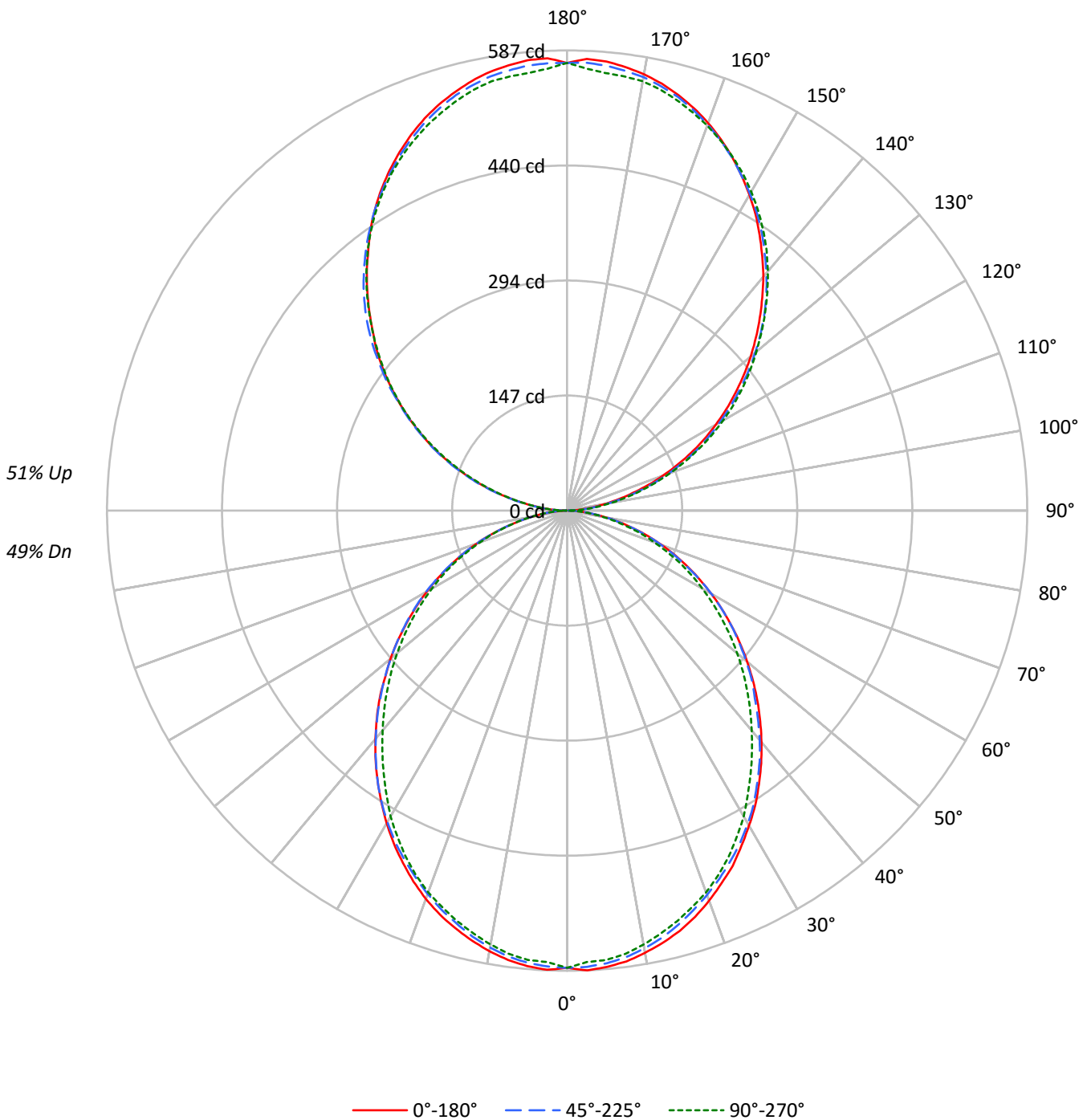
Input Watts (W): 26.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	58	57	49	48	46	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	56	50	68	59	52	47	50	45	40	42	38	35	34	31	29	25
5	68	57	48	43	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3690	3690	3690
5°	3680	3387	3674
10°	3621	3116	3608
15°	3548	2861	3525
20°	3450	2628	3434
25°	3347	2396	3318
30°	3219	2165	3194
35°	3095	1934	3059
40°	2958	1723	2918
45°	2813	1529	2772
50°	2660	1344	2609
55°	2495	1163	2436
60°	2319	985	2255
65°	2125	813	2049
70°	1898	631	1808
75°	1591	448	1482
80°	1205	279	1102
85°	719	122	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.8
10°-20°	153.9	5.1
20°-30°	226.2	7.6
30°-40°	261.2	8.7
40°-50°	258.9	8.6
50°-60°	224.6	7.5
60°-70°	164.0	5.5
70°-80°	89.6	3.0
80°-90°	23.3	0.8
90°-100°	28.3	0.9
100°-110°	102.3	3.4
110°-120°	182.0	6.1
120°-130°	242.6	8.1
130°-140°	274.5	9.2
140°-150°	271.2	9.1
150°-160°	229.6	7.7
160°-170°	153.8	5.1
170°-180°	54.0	1.8
0°-30°	434.9	14.5
0°-40°	696.2	23.2
0°-60°	1179.6	39.4
0°-90°	1456.6	48.6
90°-120°	312.5	10.4
90°-150°	1100.8	36.8
90°-180°	1538.0	51.4
0°-180°	2994.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	583	583	583	583	583	
5°	584	580	575	579	583	55
15°	555	547	542	545	551	156
25°	500	493	487	491	496	230
35°	426	423	408	422	422	267
45°	343	339	325	337	338	265
55°	256	256	241	251	250	229
65°	170	168	159	164	164	168
75°	87	87	80	82	81	93
85°	20	21	19	19	18	23
90°	1	1	1	1	1	2
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-LO-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°	583.2	583.2	583.2	583.2	583.2	583.2	583.2	583.2	583.2
2.5°	587.1	581.0	582.5	581.4	576.4	580.7	582.1	580.0	586.4
5°	584.2	578.2	579.6	578.2	575.3	577.5	578.9	576.7	583.2
7.5°	580.0	573.5	574.6	573.2	570.3	572.1	573.9	571.8	578.2
10°	572.8	566.8	567.1	565.3	562.1	564.3	566.0	564.3	570.7
12.5°	564.6	558.2	558.2	555.3	552.5	554.3	556.8	555.3	561.8
15°	555.0	548.2	547.1	545.3	542.1	544.3	545.3	545.0	551.4
17.5°	543.2	536.1	534.6	534.3	530.4	533.2	533.6	532.5	540.3
20°	529.6	522.9	521.8	521.4	518.2	520.4	520.4	518.9	527.1
22.5°	514.6	508.2	507.9	507.2	503.6	506.1	506.1	503.9	512.2
25°	500.0	492.2	493.2	491.5	487.2	490.7	491.1	487.5	495.7
27.5°	481.8	475.7	477.9	474.7	469.0	473.6	475.7	470.4	479.0
30°	464.0	457.5	461.1	455.4	450.4	454.7	458.6	451.8	460.4
32.5°	446.5	439.0	443.3	436.1	429.0	434.3	440.8	434.3	441.1
35°	426.5	420.4	422.9	415.4	408.3	413.6	421.5	415.4	421.5
37.5°	406.5	401.5	403.3	394.4	387.2	392.6	400.8	396.2	401.5
40°	385.8	382.2	382.2	373.3	366.2	371.2	379.7	377.2	380.5
42.5°	364.4	363.0	360.1	352.3	345.5	350.5	358.7	358.0	359.4
45°	343.3	343.3	338.7	330.5	324.8	329.4	336.9	338.7	338.3
47.5°	321.6	323.4	319.4	310.5	304.1	308.7	315.5	318.7	315.1
50°	299.8	303.0	298.0	290.2	283.0	288.0	293.7	298.0	294.1
52.5°	278.0	282.0	276.6	269.1	262.0	266.6	272.3	277.3	272.3
55°	255.9	260.5	255.5	247.7	240.9	245.2	250.9	255.9	249.8
57.5°	234.1	238.4	234.1	226.3	219.9	223.8	229.8	233.8	228.4
60°	212.4	217.0	212.7	205.2	199.2	202.4	208.1	212.0	206.6
62.5°	190.9	194.9	190.2	184.2	179.5	180.9	186.3	190.9	185.2
65°	169.9	173.5	168.5	163.1	159.2	159.9	164.5	167.0	163.8
67.5°	149.2	153.1	147.8	142.8	138.1	139.5	143.5	147.0	143.1
70°	128.5	132.4	126.7	122.4	118.5	119.2	122.4	126.3	122.4
72.5°	108.1	111.4	107.4	102.4	99.6	100.3	102.1	105.6	101.7
75°	87.4	91.0	86.7	82.8	79.9	80.7	81.7	84.6	81.4
77.5°	68.2	70.7	67.8	64.6	62.8	63.2	63.5	65.7	62.8
80°	50.3	52.5	50.7	48.2	46.8	46.8	46.8	48.5	46.0
82.5°	34.3	36.4	35.0	33.2	32.1	31.1	31.8	33.2	31.1
85°	20.3	22.1	21.4	19.6	18.9	18.2	18.9	19.6	17.8
87.5°	9.3	10.7	9.6	7.9	7.1	6.4	6.4	7.5	6.1
90°	0.7	1.8	1.4	1.1	0.7	0.7	1.1	1.4	0.7
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)