

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027949

Luminaire Tested: S125DIP-B375D850UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027949
REPORT IS A COMBINATION OF REPORTS P1002095 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

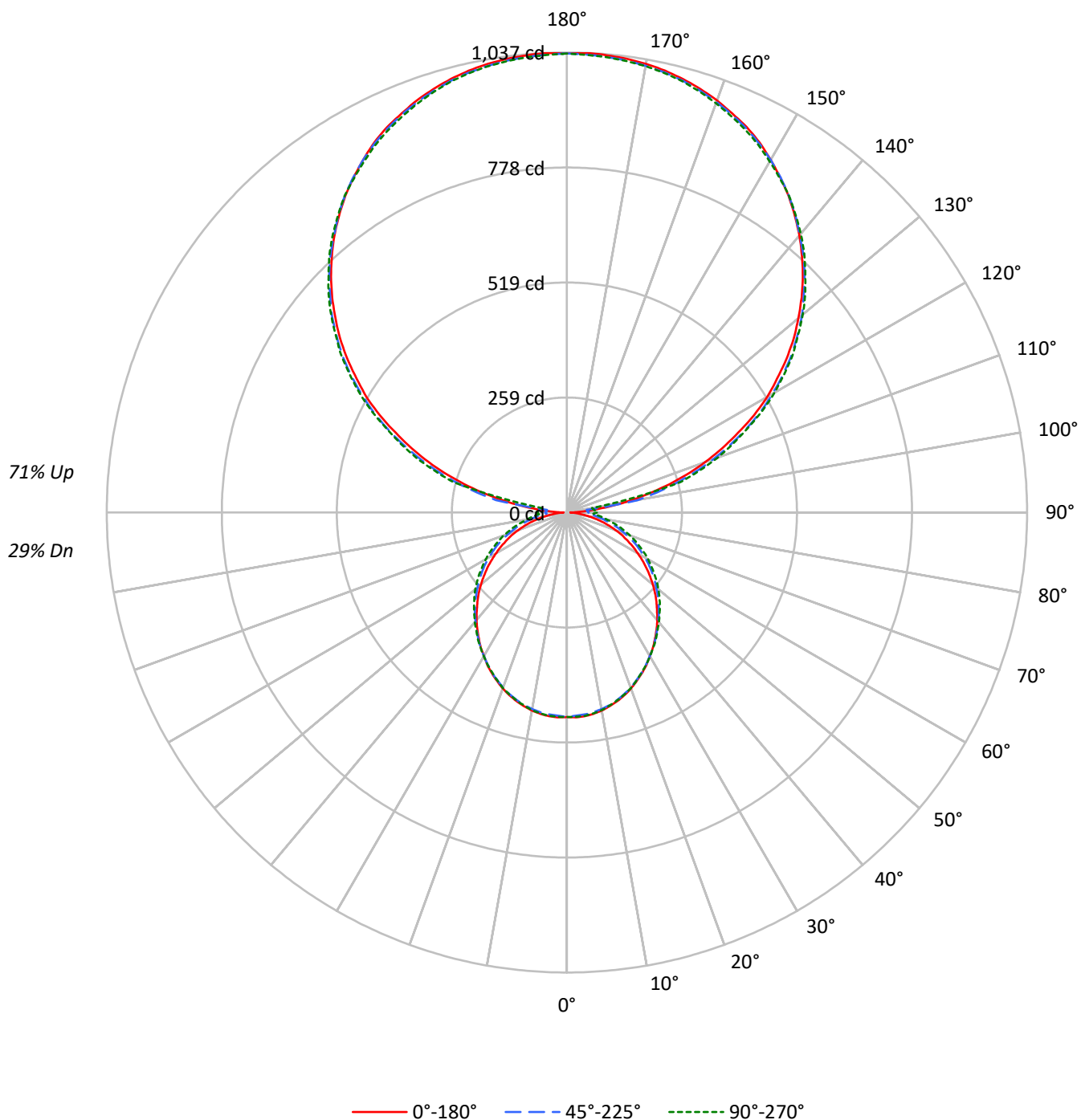
Lumens per Lamp: N/A
Luminaire Lumens: 4608.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	88	84	81	83	79	76	73	62	60	58	46	45	44	32	31	30
2	84	77	71	66	75	69	64	59	54	51	47	40	38	36	28	26	25
3	77	67	60	54	68	60	54	49	48	43	40	36	33	30	25	23	21
4	70	59	52	46	62	53	47	42	42	37	34	32	28	26	22	20	18
5	64	53	45	39	57	47	41	35	37	33	29	28	25	22	20	17	16
6	59	47	39	33	52	42	36	31	34	29	25	25	22	19	18	15	14
7	54	42	35	29	48	38	31	27	30	25	22	23	20	17	16	14	12
8	50	38	31	26	45	35	28	23	28	23	19	21	17	15	15	13	11
9	47	35	28	23	42	31	25	21	25	20	17	19	16	13	14	11	10
10	44	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2954	2954	2954
5°	2958	2892	2899
10°	2936	2833	2825
15°	2900	2764	2734
20°	2852	2681	2643
25°	2795	2593	2534
30°	2725	2497	2434
35°	2661	2408	2342
40°	2595	2315	2250
45°	2521	2234	2166
50°	2450	2146	2092
55°	2364	2062	2004
60°	2270	1966	1915
65°	2171	1866	1815
70°	2060	1731	1709
75°	1884	1598	1582
80°	1651	1436	1440
85°	1424	1307	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.9
10°-20°	123.8	2.7
20°-30°	184.1	4.0
30°-40°	218.1	4.7
40°-50°	225.5	4.9
50°-60°	207.7	4.5
60°-70°	167.9	3.6
70°-80°	112.3	2.4
80°-90°	59.6	1.3
90°-100°	67.8	1.5
100°-110°	257.7	5.6
110°-120°	436.7	9.5
120°-130°	548.9	11.9
130°-140°	584.6	12.7
140°-150°	545.7	11.8
150°-160°	440.7	9.6
160°-170°	285.0	6.2
170°-180°	98.3	2.1
0°-30°	351.6	7.6
0°-40°	569.7	12.4
0°-60°	1002.8	21.8
0°-90°	1342.6	29.1
90°-120°	762.1	16.5
90°-150°	2441.3	53.0
90°-180°	3265.0	70.9
0°-180°	4608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	460	457	460	460	44
15°	440	441	438	440	438	124
25°	400	401	399	400	398	184
35°	346	349	348	349	349	217
45°	285	290	292	296	296	220
55°	219	226	234	239	240	196
65°	151	161	172	179	181	150
75°	83	95	109	118	121	88
85°	25	40	56	66	69	26
90°	8	29	49	64	69	7
95°	50	59	45	59	62	58
105°	230	240	254	262	265	243
115°	426	433	446	451	449	422
125°	604	609	618	622	622	539
135°	752	756	758	762	760	580
145°	871	872	872	875	872	545
155°	959	954	956	958	952	442
165°	1012	1007	1008	1012	1006	286
175°	1035	1030	1031	1037	1030	99
180°	1035	1035	1035	1035	1035	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	462.3	461.4	458.3	461.4	461.0
5°	461.0	460.1	456.9	460.5	460.1
7.5°	457.8	457.4	454.2	457.4	456.9
10°	453.3	453.3	449.7	452.8	452.4
12.5°	447.0	447.4	444.7	447.0	445.6
15°	440.2	440.6	437.5	440.2	438.4
17.5°	431.6	432.5	429.3	431.6	430.2
20°	422.1	423.0	419.8	421.2	421.2
22.5°	411.3	413.1	409.4	411.3	409.9
25°	400.0	401.3	398.6	400.4	398.2
27.5°	387.8	389.6	386.4	387.8	386.9
30°	373.7	376.5	373.7	374.6	374.2
32.5°	361.1	363.4	361.5	362.4	362.0
35°	346.2	349.3	348.0	349.3	349.3
37.5°	331.7	334.4	334.0	335.8	335.3
40°	316.8	320.4	320.0	321.8	322.7
42.5°	300.5	305.5	306.9	309.1	309.1
45°	285.2	290.1	292.4	295.6	296.0
47.5°	269.4	273.9	277.5	282.0	282.9
50°	253.1	258.1	263.0	268.0	269.4
52.5°	235.9	242.2	248.6	254.0	254.9
55°	219.2	226.4	233.6	238.6	240.4
57.5°	202.0	210.6	218.7	224.2	225.5
60°	184.8	193.9	202.9	209.7	211.1
62.5°	168.1	177.2	187.1	194.8	196.6
65°	150.9	161.3	172.2	179.0	180.8
67.5°	135.1	145.1	155.9	164.1	166.3
70°	117.5	127.9	139.6	148.2	150.9
72.5°	100.3	111.2	124.3	133.8	135.6
75°	83.2	94.9	109.4	118.4	120.7
77.5°	66.4	80.0	93.5	103.5	105.3
80°	51.1	64.6	80.0	89.9	91.7
82.5°	37.1	51.5	67.3	76.8	80.4
85°	24.9	39.8	55.6	65.5	69.1
87.5°	15.8	30.3	45.6	56.0	59.2
90°	8.0	28.6	49.4	63.6	69.0
92.5°	20.9	27.1	47.6	61.3	65.3
95°	49.6	59.0	45.3	59.0	62.2
97.5°	87.5	103.0	45.0	56.0	59.9
100°	133.1	144.9	162.4	57.6	57.2
102.5°	179.4	191.1	206.6	217.2	155.5
105°	229.6	239.9	253.5	262.5	264.9
107.5°	281.3	287.6	302.2	312.1	311.7
110°	331.5	336.9	351.0	357.3	361.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	379.0	385.3	398.3	403.4	405.0
115°	426.1	433.1	445.6	450.7	448.8
117.5°	475.6	477.8	492.1	495.2	496.9
120°	521.6	522.1	534.8	541.0	539.8
122.5°	561.7	566.1	576.7	582.4	580.5
125°	603.9	608.9	617.9	622.0	622.0
127.5°	644.2	647.5	654.4	659.7	656.3
130°	681.0	684.3	691.4	695.5	693.9
132.5°	717.3	721.9	724.1	730.5	728.5
135°	751.8	756.0	757.6	762.0	759.7
137.5°	784.0	788.2	788.5	793.9	791.9
140°	815.1	816.6	816.3	822.8	820.0
142.5°	843.5	843.7	845.3	849.4	846.6
145°	871.1	872.1	872.1	875.2	872.4
147.5°	895.1	895.1	895.9	897.6	893.1
150°	918.1	916.6	918.1	919.7	914.0
152.5°	940.4	936.5	938.1	939.6	934.2
155°	958.8	954.2	955.7	958.0	951.9
157.5°	973.4	971.1	971.1	973.4	967.2
160°	988.7	984.1	984.9	987.9	981.8
162.5°	1001.0	996.4	997.1	1001.7	994.8
165°	1011.7	1007.1	1007.9	1012.5	1006.3
167.5°	1020.2	1015.6	1016.3	1021.7	1014.8
170°	1027.1	1021.7	1022.5	1028.6	1021.7
172.5°	1031.7	1026.3	1027.8	1033.2	1026.3
175°	1034.7	1030.1	1030.9	1037.0	1030.1
177.5°	1037.0	1032.4	1033.2	1038.6	1032.4
180°	1034.7	1034.7	1034.7	1034.7	1034.7

(END OF REPORT)