

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: P1027950

Luminaire Tested: S125DIP-B375D850UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027950
REPORT IS A COMBINATION OF REPORTS P1002096 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-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

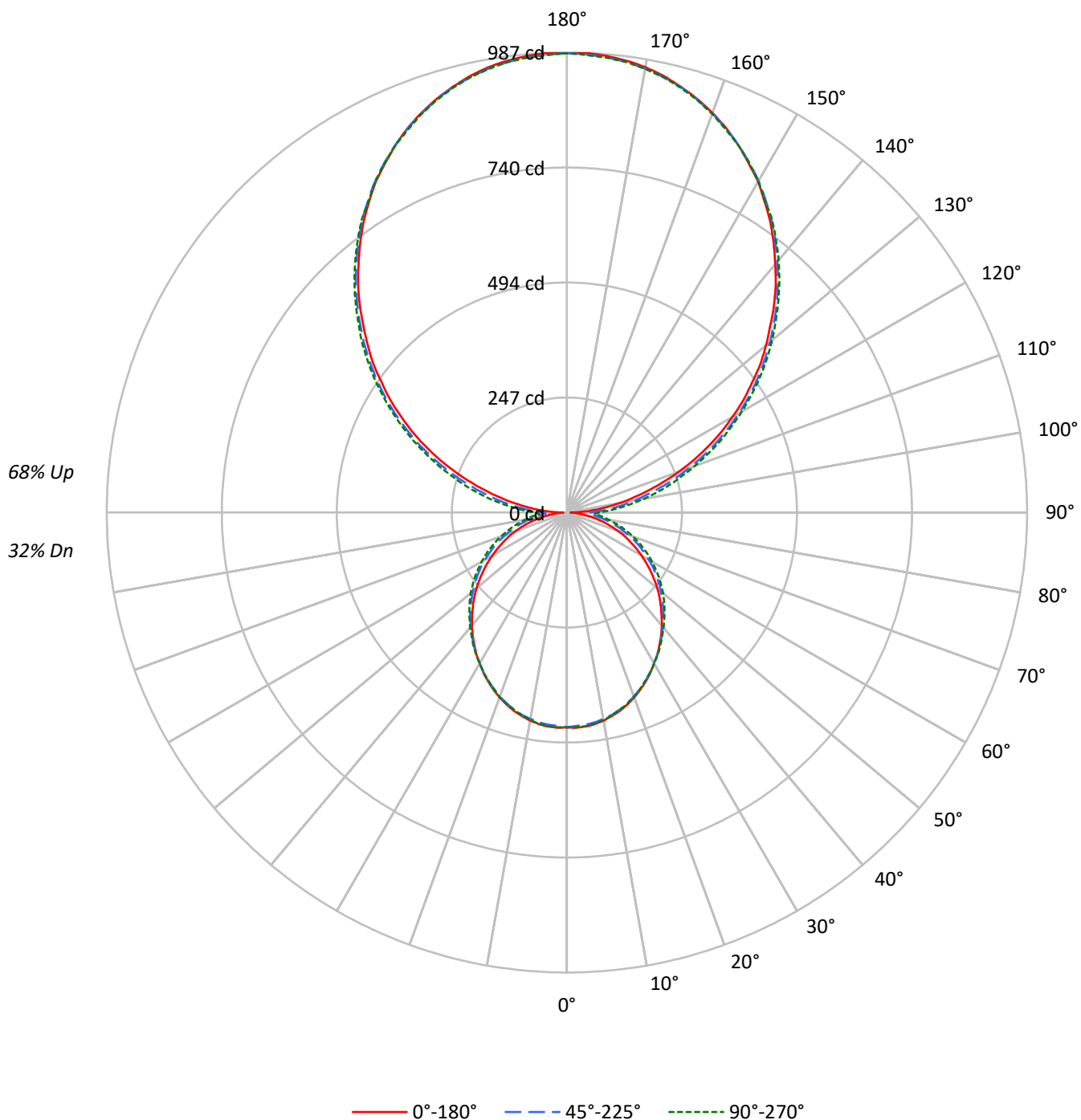
Lumens per Lamp: N/A
Luminaire Lumens: 4180.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40
1	93	89	85	81	84	80	77	74	63	61	59	48	47	45	34	33	33
2	85	77	71	66	76	70	64	60	55	52	48	42	40	38	30	28	27
3	77	68	60	55	69	61	55	50	49	44	41	37	34	31	26	24	23
4	70	60	52	46	63	54	47	42	43	38	34	33	29	27	23	21	19
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	13	12
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10
10	44	32	25	20	39	29	23	19	24	19	16	18	15	13	14	11	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	1.0
10°-20°	123.8	3.0
20°-30°	184.1	4.4
30°-40°	218.1	5.2
40°-50°	225.5	5.4
50°-60°	207.7	5.0
60°-70°	167.9	4.0
70°-80°	112.3	2.7
80°-90°	59.6	1.4
90°-100°	98.2	2.4
100°-110°	218.8	5.2
110°-120°	346.3	8.3
120°-130°	443.8	10.6
130°-140°	491.1	11.7
140°-150°	478.2	11.4
150°-160°	401.0	9.6
160°-170°	266.6	6.4
170°-180°	93.3	2.2
0°-30°	351.6	8.4
0°-40°	569.7	13.6
0°-60°	1002.8	24.0
0°-90°	1342.6	32.1
90°-120°	663.4	15.9
90°-150°	2076.5	49.7
90°-180°	2837.0	67.9
0°-180°	4180.0	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	8
95°	56	69	92	107	112	57
105°	179	190	208	222	227	191
115°	333	340	353	360	362	330
125°	484	488	498	504	505	434
135°	628	632	636	642	641	484
145°	760	763	765	768	767	475
155°	870	870	870	874	870	401
165°	946	944	945	948	943	267
175°	983	980	980	985	979	93
180°	986	986	986	986	986	

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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°	29.3	46.2	69.0	84.3	89.0
95°	55.8	69.0	92.1	107.3	112.1
97.5°	82.1	93.8	119.4	133.5	137.4
100°	112.4	121.9	146.2	162.6	166.9
102.5°	144.8	157.3	175.1	191.9	196.9
105°	179.0	190.0	208.2	221.8	227.3
107.5°	216.0	226.2	243.1	254.5	257.2
110°	254.8	264.0	278.9	289.8	292.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	294.6	300.2	315.4	324.4	326.0
115°	333.2	339.5	352.7	360.2	362.1
117.5°	372.7	375.7	388.5	397.0	397.1
120°	409.5	414.7	425.8	433.5	433.2
122.5°	448.9	450.2	462.4	468.8	469.2
125°	484.2	488.4	498.2	503.8	505.4
127.5°	522.9	524.7	533.2	539.2	540.4
130°	557.4	560.8	568.6	574.2	574.9
132.5°	591.4	598.3	602.1	607.7	607.2
135°	628.2	632.5	636.3	642.2	641.4
137.5°	662.8	667.0	670.3	676.5	674.4
140°	695.3	699.2	701.9	708.4	706.4
142.5°	728.3	730.9	734.0	738.8	736.8
145°	760.5	763.1	765.4	767.7	767.2
147.5°	789.9	792.2	793.8	797.0	791.7
150°	819.8	819.1	822.1	822.1	821.1
152.5°	844.4	845.9	846.7	849.0	845.9
155°	869.7	869.7	870.5	873.5	869.7
157.5°	892.7	891.2	891.9	895.0	889.6
160°	912.6	910.3	911.1	914.2	910.3
162.5°	930.3	928.8	928.8	932.6	928.0
165°	945.6	944.1	944.9	947.9	943.3
167.5°	959.4	956.4	956.4	961.0	956.4
170°	970.2	967.1	967.1	971.7	966.3
172.5°	977.8	974.8	974.8	979.4	974.8
175°	983.2	980.1	980.1	984.7	979.4
177.5°	987.0	984.0	983.2	987.8	982.4
180°	985.5	985.5	985.5	985.5	985.5

(END OF REPORT)