

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: P1026898

Luminaire Tested: S125DIP-B375D850UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026898
REPORT IS A COMBINATION OF REPORTS P1002077 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB2750-4F0-XX-W2A-D_5000K
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

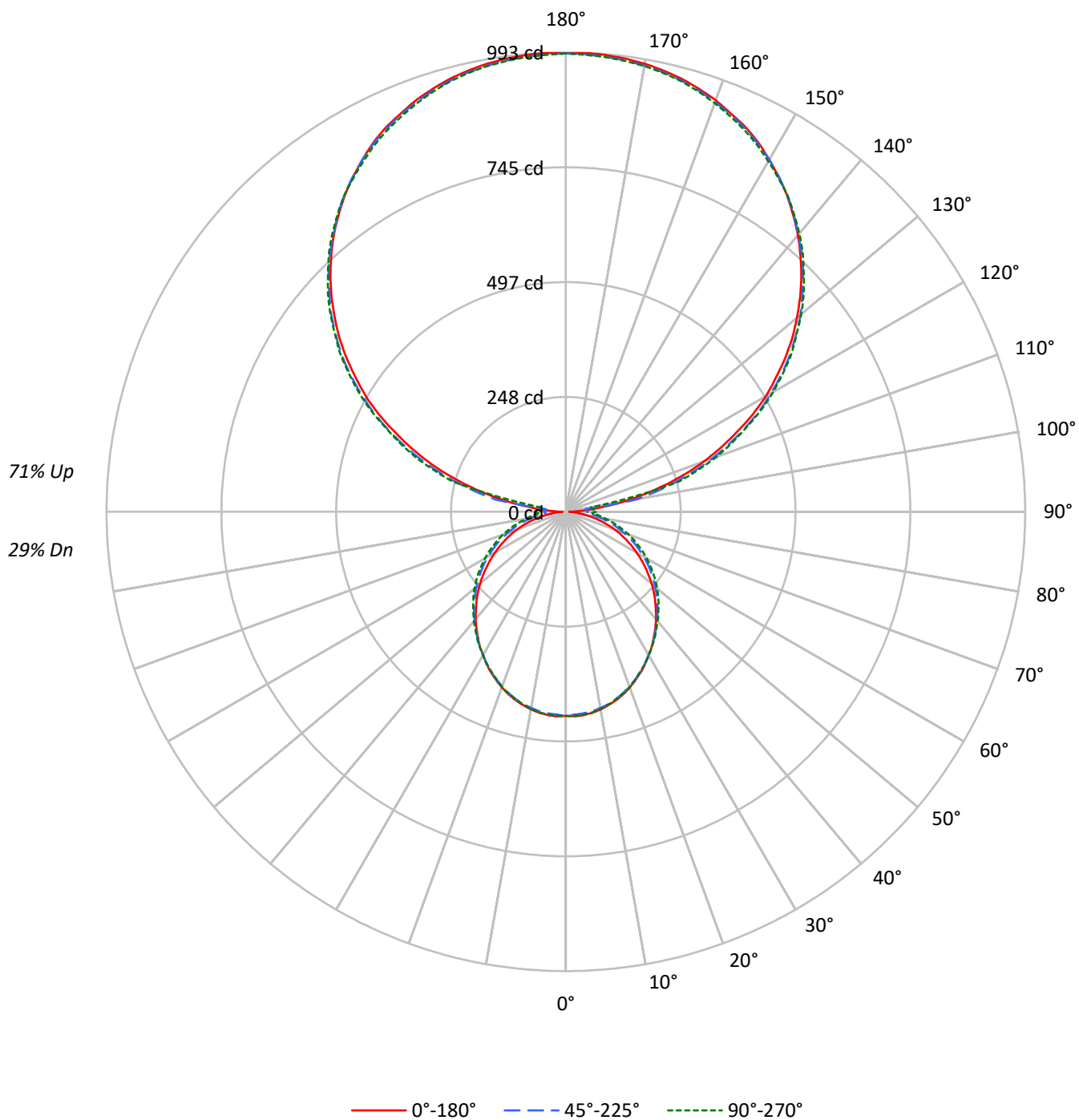
Lumens per Lamp: N/A
Luminaire Lumens: 4412.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2832	2768	2775
10°	2811	2712	2704
15°	2777	2646	2616
20°	2730	2566	2530
25°	2676	2482	2425
30°	2609	2390	2330
35°	2547	2305	2242
40°	2485	2216	2153
45°	2413	2138	2074
50°	2345	2054	2002
55°	2263	1974	1919
60°	2173	1882	1833
65°	2079	1786	1736
70°	1972	1657	1636
75°	1802	1530	1514
80°	1580	1375	1378
85°	1361	1251	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	0.9
10°-20°	118.5	2.7
20°-30°	176.3	4.0
30°-40°	208.8	4.7
40°-50°	215.8	4.9
50°-60°	198.8	4.5
60°-70°	160.7	3.6
70°-80°	107.6	2.4
80°-90°	57.1	1.3
90°-100°	65.0	1.5
100°-110°	246.7	5.6
110°-120°	418.1	9.5
120°-130°	525.6	11.9
130°-140°	559.7	12.7
140°-150°	522.5	11.8
150°-160°	422.0	9.6
160°-170°	272.9	6.2
170°-180°	94.1	2.1
0°-30°	336.6	7.6
0°-40°	545.3	12.4
0°-60°	960.0	21.8
0°-90°	1285.3	29.1
90°-120°	729.8	16.5
90°-150°	2337.6	53.0
90°-180°	3127.0	70.9
0°-180°	4412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	437	441	440	42
15°	421	422	419	421	420	119
25°	383	384	382	383	381	176
35°	331	334	333	334	334	207
45°	273	278	280	283	283	211
55°	210	217	224	228	230	188
65°	144	154	165	171	173	143
75°	80	91	105	113	116	84
85°	24	38	53	63	66	25
90°	8	27	47	61	66	7
95°	48	57	43	56	60	56
105°	220	230	243	251	254	233
115°	408	415	427	432	430	405
125°	578	583	592	596	596	516
135°	720	724	726	730	727	555
145°	834	835	835	838	835	522
155°	918	914	915	917	912	423
165°	969	964	965	970	964	274
175°	991	986	987	993	986	94
180°	991	991	991	991	991	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	442.6	441.7	438.7	441.7	441.3
5°	441.3	440.4	437.4	440.8	440.4
7.5°	438.2	437.8	434.8	437.8	437.4
10°	433.9	433.9	430.5	433.5	433.1
12.5°	427.9	428.3	425.7	427.9	426.6
15°	421.4	421.8	418.8	421.4	419.6
17.5°	413.2	414.0	411.0	413.2	411.9
20°	404.1	404.9	401.9	403.2	403.2
22.5°	393.7	395.4	392.0	393.7	392.4
25°	382.9	384.2	381.6	383.3	381.1
27.5°	371.2	372.9	369.9	371.2	370.3
30°	357.8	360.4	357.8	358.6	358.2
32.5°	345.7	347.8	346.1	347.0	346.5
35°	331.4	334.4	333.1	334.4	334.4
37.5°	317.5	320.1	319.7	321.4	321.0
40°	303.3	306.7	306.3	308.0	308.9
42.5°	287.7	292.5	293.8	295.9	295.9
45°	273.0	277.7	279.9	282.9	283.4
47.5°	257.8	262.2	265.6	270.0	270.8
50°	242.3	247.0	251.8	256.5	257.8
52.5°	225.8	231.9	237.9	243.1	244.0
55°	209.8	216.7	223.7	228.4	230.2
57.5°	193.4	201.6	209.4	214.6	215.9
60°	176.9	185.6	194.2	200.7	202.0
62.5°	160.9	169.6	179.1	186.5	188.2
65°	144.5	154.4	164.8	171.3	173.0
67.5°	129.4	138.9	149.3	157.0	159.2
70°	112.5	122.4	133.7	141.9	144.5
72.5°	96.0	106.4	119.0	128.1	129.8
75°	79.6	90.9	104.7	113.3	115.5
77.5°	63.6	76.6	89.6	99.1	100.8
80°	48.9	61.9	76.6	86.1	87.8
82.5°	35.5	49.3	64.5	73.5	77.0
85°	23.8	38.1	53.2	62.7	66.2
87.5°	15.1	29.0	43.7	53.6	56.7
90°	7.6	27.4	47.3	60.8	66.1
92.5°	20.1	25.9	45.5	58.7	62.5
95°	47.5	56.6	43.4	56.5	59.5
97.5°	83.8	98.6	43.1	53.6	57.4
100°	127.5	138.7	155.5	55.2	54.8
102.5°	171.8	182.9	197.9	207.9	148.8
105°	219.8	229.7	242.7	251.3	253.6
107.5°	269.4	275.4	289.4	298.8	298.4
110°	317.4	322.6	336.1	342.2	346.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.9	369.0	381.4	386.3	387.8
115°	408.0	414.7	426.7	431.6	429.8
117.5°	455.4	457.5	471.2	474.2	475.7
120°	499.4	500.0	512.1	518.0	517.0
122.5°	537.9	542.0	552.3	557.7	555.9
125°	578.3	583.0	591.7	595.7	595.6
127.5°	616.8	620.1	626.6	631.7	628.4
130°	652.0	655.3	662.0	665.9	664.4
132.5°	686.9	691.3	693.4	699.4	697.5
135°	719.9	723.9	725.5	729.6	727.3
137.5°	750.8	754.7	755.0	760.2	758.3
140°	780.4	781.9	781.6	787.8	785.2
142.5°	807.6	807.9	809.4	813.3	810.6
145°	834.0	835.1	835.1	838.0	835.3
147.5°	857.1	857.1	857.9	859.5	855.2
150°	879.2	877.7	879.2	880.6	875.2
152.5°	900.5	896.8	898.3	899.7	894.6
155°	918.1	913.7	915.2	917.4	911.5
157.5°	932.0	929.8	929.8	932.0	926.2
160°	946.7	942.3	943.1	946.0	940.1
162.5°	958.5	954.1	954.8	959.2	952.6
165°	968.8	964.4	965.1	969.5	963.6
167.5°	976.8	972.4	973.2	978.3	971.7
170°	983.5	978.3	979.0	984.9	978.3
172.5°	987.9	982.7	984.2	989.3	982.7
175°	990.8	986.4	987.1	993.0	986.4
177.5°	993.0	988.6	989.3	994.5	988.6
180°	990.8	990.8	990.8	990.8	990.8

(END OF REPORT)