

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: P1028307

Luminaire Tested: S125DIP-B850D375UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028307
REPORT IS A COMBINATION OF REPORTS P1002579 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

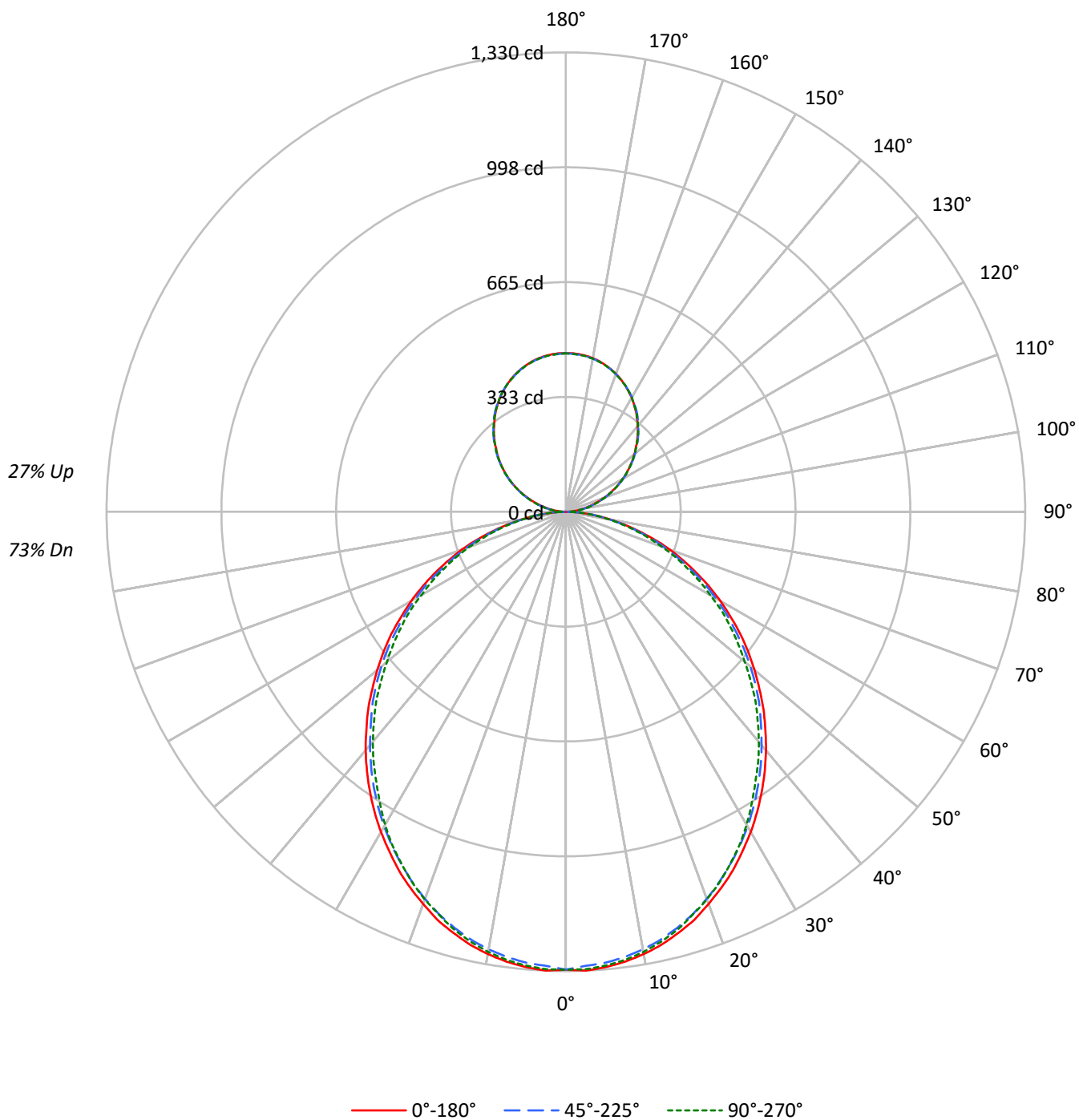
Lumens per Lamp: N/A
Luminaire Lumens: 4731.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77
1	103	98	94	91	97	93	90	87	84	82	79	76	74	72	68	67	65
2	94	86	79	74	89	82	76	71	74	69	65	67	63	60	60	57	55
3	85	76	68	62	81	72	65	59	65	60	55	59	54	51	53	50	47
4	78	67	59	52	74	64	56	50	58	52	47	53	48	43	47	43	40
5	72	60	51	45	68	57	49	44	52	46	41	47	42	38	43	38	35
6	66	54	45	39	63	51	44	38	47	40	36	43	37	33	39	34	31
7	61	49	40	35	58	47	39	33	43	36	31	39	33	29	35	31	27
8	57	44	36	31	54	42	35	30	39	33	28	36	30	26	33	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	22	28	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8493	8493	8493
5°	8493	8295	8311
10°	8423	8105	8080
15°	8313	7878	7807
20°	8163	7614	7494
25°	8002	7327	7160
30°	7809	7027	6807
35°	7602	6713	6412
40°	7388	6380	6060
45°	7157	6057	5687
50°	6902	5690	5252
55°	6650	5285	4852
60°	6350	4858	4386
65°	5990	4364	3905
70°	5625	3796	3349
75°	5011	3125	2708
80°	4269	2334	1992
85°	3299	1380	1098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	2.6
10°-20°	353.3	7.5
20°-30°	521.6	11.0
30°-40°	608.6	12.9
40°-50°	611.2	12.9
50°-60°	536.5	11.3
60°-70°	399.6	8.4
70°-80°	228.2	4.8
80°-90°	66.6	1.4
90°-100°	30.5	0.6
100°-110°	90.6	1.9
110°-120°	153.7	3.2
120°-130°	202.3	4.3
130°-140°	226.7	4.8
140°-150°	222.2	4.7
150°-160°	186.7	3.9
160°-170°	124.1	2.6
170°-180°	43.4	0.9
0°-30°	1000.0	21.1
0°-40°	1608.5	34.0
0°-60°	2756.3	58.3
0°-90°	3450.7	72.9
90°-120°	274.8	5.8
90°-150°	926.1	19.6
90°-180°	1280.0	27.1
0°-180°	4731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1323	1321	1311	1320	1319	126
15°	1262	1258	1247	1252	1252	356
25°	1145	1140	1126	1128	1125	527
35°	989	985	970	965	956	619
45°	810	805	793	780	777	624
55°	617	614	599	589	582	550
65°	416	414	403	393	389	413
75°	221	219	214	211	207	236
85°	58	59	59	58	56	63
90°	0	3	6	8	9	5
95°	23	24	28	30	31	24
105°	81	83	85	88	88	87
115°	154	155	156	156	155	152
125°	224	227	227	226	226	201
135°	292	294	294	294	293	225
145°	354	355	356	356	355	221
155°	405	405	405	407	405	186
165°	440	440	440	441	439	124
175°	458	456	456	458	456	43
180°	459	459	459	459	459	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.5	1325.5	1325.5	1325.5	1325.5
2.5°	1329.7	1326.6	1316.1	1326.6	1325.5
5°	1323.4	1321.3	1310.8	1320.3	1319.2
7.5°	1314.0	1311.9	1300.4	1309.8	1308.7
10°	1300.4	1298.3	1286.7	1295.1	1294.1
12.5°	1283.6	1279.4	1268.9	1275.2	1275.2
15°	1261.6	1258.4	1246.9	1252.1	1252.1
17.5°	1238.5	1233.2	1221.7	1228.0	1222.7
20°	1208.1	1206.0	1192.3	1199.7	1194.4
22.5°	1177.7	1173.5	1160.9	1165.1	1161.9
25°	1145.1	1139.9	1126.3	1128.4	1125.2
27.5°	1107.4	1104.2	1090.6	1091.7	1088.5
30°	1070.7	1067.5	1051.8	1049.7	1046.6
32.5°	1030.8	1025.6	1012.0	1007.8	1001.5
35°	988.9	984.7	970.0	964.8	956.4
37.5°	945.9	940.7	927.0	919.7	914.4
40°	901.9	896.6	881.9	872.5	869.3
42.5°	854.7	850.5	835.8	827.4	822.2
45°	809.6	805.4	792.8	780.2	777.1
47.5°	760.3	761.3	745.6	733.0	725.7
50°	713.1	709.9	697.4	683.7	676.4
52.5°	664.9	662.8	649.1	637.6	629.2
55°	616.6	613.5	598.8	589.4	582.0
57.5°	565.2	564.2	551.6	539.0	535.9
60°	517.0	512.8	501.3	490.8	483.4
62.5°	466.7	463.5	454.1	442.5	437.3
65°	416.3	414.2	402.7	393.3	389.1
67.5°	367.0	362.8	354.5	346.1	344.0
70°	320.9	315.6	306.2	299.9	295.7
72.5°	270.6	267.4	262.2	254.8	250.6
75°	221.3	219.2	213.9	210.8	206.6
77.5°	175.1	174.1	170.9	168.8	165.7
80°	132.1	132.1	130.0	129.0	126.9
82.5°	94.4	92.3	92.3	90.2	90.2
85°	57.7	58.7	58.7	57.7	55.6
87.5°	28.3	28.3	27.3	27.3	25.2
90°	0.4	3.2	5.7	7.5	8.6
92.5°	10.7	12.5	15.7	18.2	18.9
95°	23.2	23.9	27.5	30.0	30.7
97.5°	35.7	36.1	41.1	43.2	43.6
100°	50.0	50.0	54.6	57.8	58.5
102.5°	65.3	67.1	68.9	72.5	73.5
105°	81.4	83.2	85.3	87.5	88.5
107.5°	98.9	100.7	102.5	103.5	103.5
110°	117.1	118.9	119.9	121.0	120.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.7	136.4	137.8	138.2	137.4
115°	153.9	155.3	156.0	155.6	155.3
117.5°	172.4	172.8	173.5	173.9	172.4
120°	189.6	191.3	191.7	191.7	190.3
122.5°	208.1	208.5	209.6	209.2	208.1
125°	224.5	226.7	227.0	226.3	226.0
127.5°	242.8	243.8	244.2	243.8	243.1
130°	258.8	260.6	261.3	261.0	260.2
132.5°	274.9	278.1	277.7	277.4	276.3
135°	292.0	294.2	294.5	294.5	293.1
137.5°	308.1	310.2	310.9	311.3	309.5
140°	323.4	325.2	326.3	327.0	325.2
142.5°	338.8	340.2	341.6	342.0	340.2
145°	353.8	355.2	356.3	356.3	355.2
147.5°	367.7	368.8	369.5	370.6	367.7
150°	381.6	381.3	382.7	382.7	382.0
152.5°	393.0	393.8	394.1	395.2	393.8
155°	404.8	404.8	405.2	406.6	404.8
157.5°	415.5	414.8	415.2	416.6	414.1
160°	424.8	423.7	424.1	425.5	423.7
162.5°	433.0	432.3	432.3	434.1	432.0
165°	440.2	439.5	439.8	441.2	439.1
167.5°	446.6	445.2	445.2	447.3	445.2
170°	451.6	450.2	450.2	452.3	449.8
172.5°	455.2	453.7	453.7	455.9	453.7
175°	457.7	456.2	456.2	458.4	455.9
177.5°	459.4	458.0	457.7	459.8	457.3
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)