

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: P1028325

Luminaire Tested: S125DIP-B850D375UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028325
REPORT IS A COMBINATION OF REPORTS P1002597 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

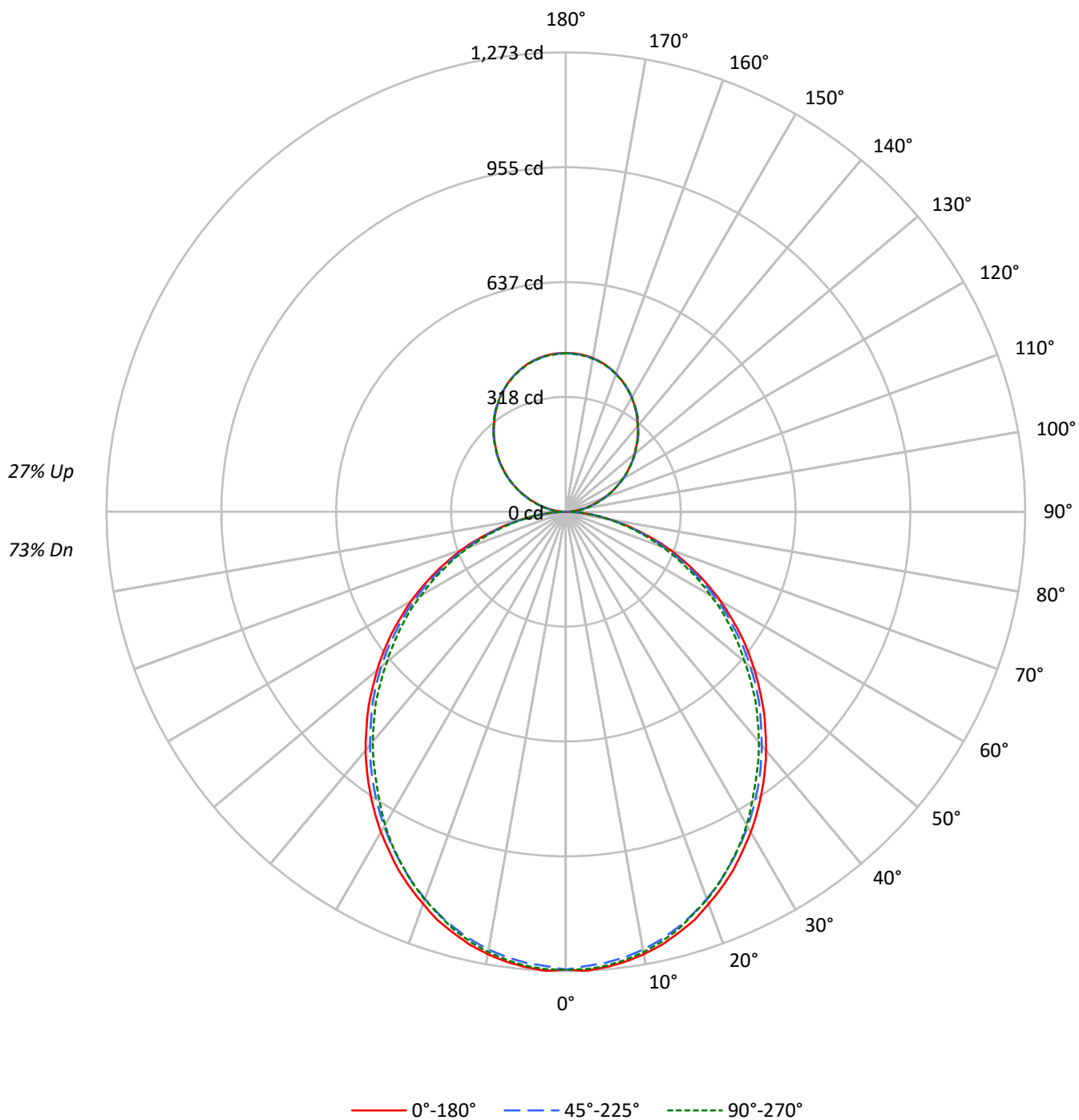
Lumens per Lamp: N/A
Luminaire Lumens: 4530.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	8131	8131	8131
5°	8131	7942	7957
10°	8064	7760	7735
15°	7958	7542	7475
20°	7815	7289	7175
25°	7662	7014	6855
30°	7476	6727	6517
35°	7278	6427	6138
40°	7073	6109	5802
45°	6852	5799	5445
50°	6608	5448	5028
55°	6367	5060	4645
60°	6080	4651	4199
65°	5735	4178	3738
70°	5385	3635	3206
75°	4796	2992	2593
80°	4088	2235	1907
85°	3156	1321	1051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	2.6
10°-20°	338.2	7.5
20°-30°	499.4	11.0
30°-40°	582.6	12.9
40°-50°	585.2	12.9
50°-60°	513.6	11.3
60°-70°	382.6	8.4
70°-80°	218.5	4.8
80°-90°	63.8	1.4
90°-100°	29.2	0.6
100°-110°	86.8	1.9
110°-120°	147.2	3.2
120°-130°	193.8	4.3
130°-140°	217.2	4.8
140°-150°	212.9	4.7
150°-160°	178.8	3.9
160°-170°	118.9	2.6
170°-180°	41.6	0.9
0°-30°	957.4	21.1
0°-40°	1540.0	34.0
0°-60°	2638.8	58.3
0°-90°	3303.7	72.9
90°-120°	263.2	5.8
90°-150°	887.1	19.6
90°-180°	1226.0	27.1
0°-180°	4530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1267	1265	1255	1264	1263	120
15°	1208	1205	1194	1199	1199	341
25°	1096	1091	1078	1080	1077	504
35°	947	943	929	924	916	592
45°	775	771	759	747	744	597
55°	590	587	573	564	557	527
65°	399	397	386	376	372	395
75°	212	210	205	202	198	226
85°	55	56	56	55	53	60
90°	0	3	6	7	8	5
95°	22	23	26	29	29	23
105°	78	80	82	84	85	83
115°	147	149	149	149	149	146
125°	215	217	218	217	216	193
135°	280	282	282	282	281	216
145°	339	340	341	341	340	212
155°	388	388	388	390	388	179
165°	422	421	421	423	421	119
175°	438	437	437	439	437	42
180°	439	439	439	439	439	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.0	1269.0	1269.0	1269.0	1269.0
2.5°	1273.1	1270.0	1260.0	1270.0	1269.0
5°	1267.0	1265.0	1255.0	1264.0	1263.0
7.5°	1258.0	1256.0	1244.9	1254.0	1253.0
10°	1244.9	1242.9	1231.9	1239.9	1238.9
12.5°	1228.9	1224.9	1214.8	1220.8	1220.8
15°	1207.8	1204.8	1193.7	1198.8	1198.8
17.5°	1185.7	1180.7	1169.6	1175.7	1170.6
20°	1156.6	1154.6	1141.5	1148.6	1143.5
22.5°	1127.5	1123.5	1111.4	1115.4	1112.4
25°	1096.4	1091.3	1078.3	1080.3	1077.3
27.5°	1060.2	1057.2	1044.1	1045.2	1042.1
30°	1025.1	1022.1	1007.0	1005.0	1002.0
32.5°	986.9	981.9	968.8	964.8	958.8
35°	946.8	942.7	928.7	923.7	915.6
37.5°	905.6	900.6	887.5	880.5	875.5
40°	863.4	858.4	844.4	835.3	832.3
42.5°	818.2	814.2	800.2	792.1	787.1
45°	775.1	771.1	759.0	747.0	744.0
47.5°	727.9	728.9	713.8	701.8	694.8
50°	682.7	679.7	667.7	654.6	647.6
52.5°	636.5	634.5	621.5	610.4	602.4
55°	590.3	587.3	573.3	564.2	557.2
57.5°	541.1	540.1	528.1	516.0	513.0
60°	495.0	490.9	479.9	469.9	462.8
62.5°	446.8	443.8	434.7	423.7	418.7
65°	398.6	396.6	385.5	376.5	372.5
67.5°	351.4	347.4	339.3	331.3	329.3
70°	307.2	302.2	293.2	287.1	283.1
72.5°	259.0	256.0	251.0	244.0	240.0
75°	211.8	209.8	204.8	201.8	197.8
77.5°	167.7	166.7	163.6	161.6	158.6
80°	126.5	126.5	124.5	123.5	121.5
82.5°	90.4	88.4	88.4	86.3	86.3
85°	55.2	56.2	56.2	55.2	53.2
87.5°	27.1	27.1	26.1	26.1	24.1
90°	0.3	3.1	5.5	7.2	8.2
92.5°	10.3	12.0	15.0	17.4	18.1
95°	22.2	22.9	26.3	28.7	29.4
97.5°	34.2	34.5	39.3	41.4	41.7
100°	47.9	47.9	52.3	55.4	56.1
102.5°	62.6	64.3	66.0	69.4	70.4
105°	78.0	79.7	81.7	83.8	84.8
107.5°	94.7	96.4	98.1	99.2	99.2
110°	112.2	113.9	114.9	115.9	115.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	130.6	132.0	132.3	131.6
115°	147.4	148.7	149.4	149.1	148.7
117.5°	165.2	165.5	166.2	166.5	165.2
120°	181.6	183.3	183.6	183.6	182.3
122.5°	199.4	199.7	200.7	200.4	199.4
125°	215.1	217.1	217.5	216.8	216.4
127.5°	232.5	233.5	233.9	233.5	232.9
130°	247.9	249.6	250.3	250.0	249.3
132.5°	263.3	266.4	266.0	265.7	264.7
135°	279.7	281.8	282.1	282.1	280.7
137.5°	295.1	297.1	297.8	298.2	296.5
140°	309.8	311.5	312.5	313.2	311.5
142.5°	324.5	325.9	327.2	327.6	325.9
145°	338.9	340.2	341.3	341.3	340.2
147.5°	352.2	353.2	353.9	354.9	352.2
150°	365.5	365.2	366.6	366.6	365.9
152.5°	376.5	377.2	377.5	378.5	377.2
155°	387.8	387.8	388.1	389.5	387.8
157.5°	398.0	397.3	397.7	399.0	396.7
160°	406.9	405.9	406.2	407.6	405.9
162.5°	414.8	414.1	414.1	415.8	413.7
165°	421.6	420.9	421.3	422.6	420.6
167.5°	427.8	426.4	426.4	428.5	426.4
170°	432.6	431.2	431.2	433.2	430.8
172.5°	436.0	434.6	434.6	436.7	434.6
175°	438.4	437.0	437.0	439.1	436.7
177.5°	440.1	438.7	438.4	440.4	438.0
180°	439.4	439.4	439.4	439.4	439.4

(END OF REPORT)