

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: P1028317

Luminaire Tested: S125DIP-B850D375UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028317
REPORT IS A COMBINATION OF REPORTS P1002589 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB40-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

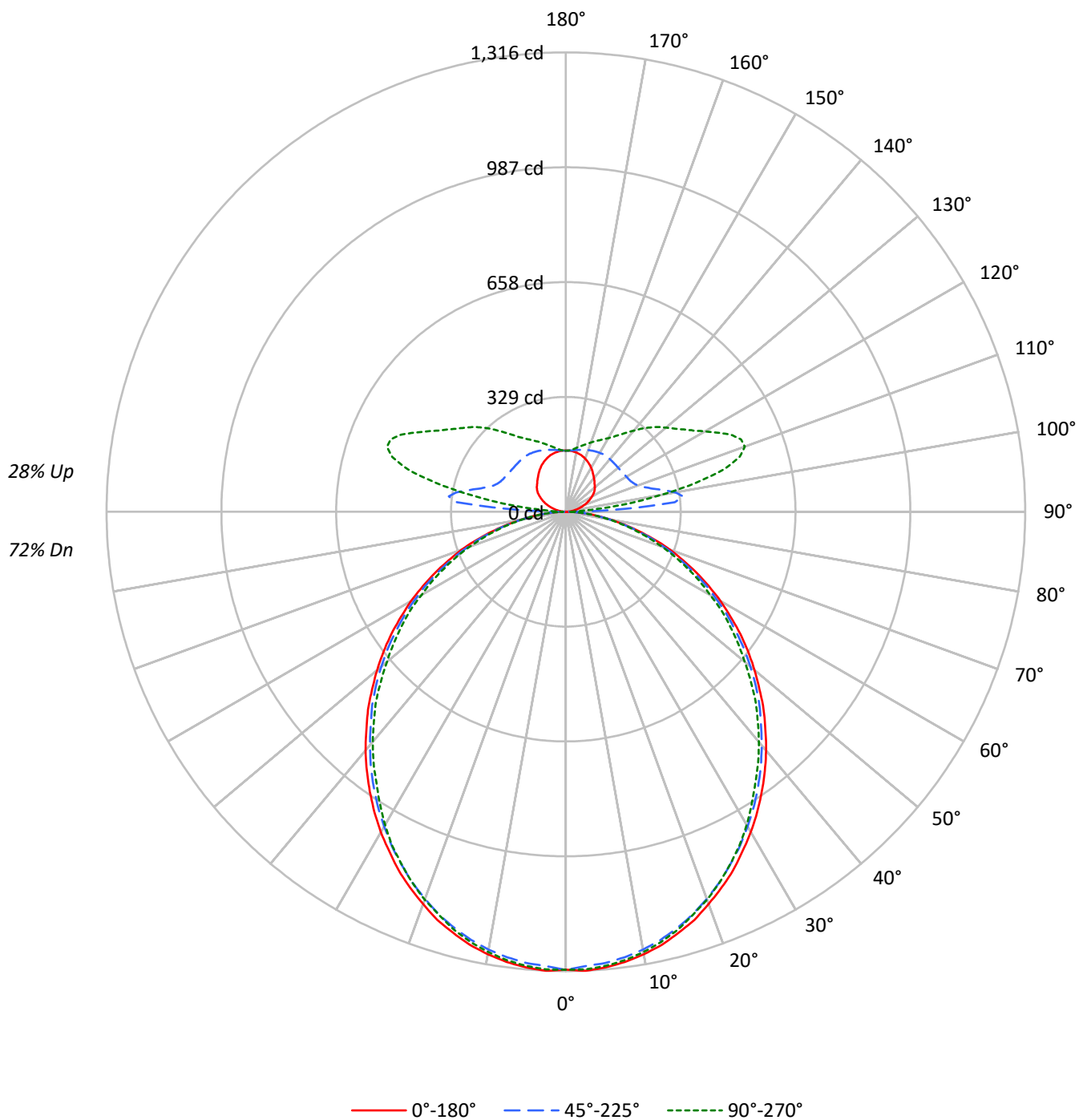
Lumens per Lamp: N/A
Luminaire Lumens: 4735.7 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76
1	103	98	94	90	97	93	90	86	84	81	79	75	73	71	67	66	64
2	93	86	79	74	88	81	76	71	73	69	65	66	63	60	59	57	54
3	85	75	68	62	81	72	65	59	65	59	55	58	54	50	53	49	46
4	78	67	59	52	74	64	56	50	58	52	47	52	47	43	47	43	40
5	72	60	51	45	68	57	49	43	52	45	40	47	42	37	42	38	35
6	66	54	45	39	63	51	43	38	47	40	35	42	37	33	38	34	31
7	61	49	40	34	58	46	39	33	42	36	31	39	33	29	35	31	27
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	28	24
9	53	40	33	27	50	39	32	27	36	29	25	33	27	24	30	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8407	8407	8407
5°	8407	8211	8227
10°	8338	8023	7998
15°	8228	7798	7728
20°	8080	7537	7418
25°	7921	7252	7087
30°	7729	6955	6738
35°	7525	6645	6347
40°	7313	6316	5999
45°	7084	5996	5629
50°	6833	5632	5198
55°	6583	5231	4802
60°	6285	4809	4341
65°	5930	4320	3865
70°	5567	3757	3315
75°	4959	3095	2681
80°	4227	2311	1972
85°	3265	1366	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	2.6
10°-20°	349.7	7.4
20°-30°	516.3	10.9
30°-40°	602.4	12.7
40°-50°	605.0	12.8
50°-60°	531.1	11.2
60°-70°	395.6	8.4
70°-80°	225.9	4.8
80°-90°	65.9	1.4
90°-100°	132.1	2.8
100°-110°	274.3	5.8
110°-120°	256.2	5.4
120°-130°	207.3	4.4
130°-140°	166.6	3.5
140°-150°	125.7	2.7
150°-160°	88.5	1.9
160°-170°	52.2	1.1
170°-180°	17.0	0.4
0°-30°	989.8	20.9
0°-40°	1592.2	33.6
0°-60°	2728.3	57.6
0°-90°	3415.7	72.1
90°-120°	662.6	14.0
90°-150°	1162.3	24.5
90°-180°	1320.0	27.9
0°-180°	4735.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1310	1308	1298	1307	1306	124
15°	1249	1246	1234	1239	1239	352
25°	1134	1128	1115	1117	1114	522
35°	979	975	960	955	947	612
45°	801	797	785	772	769	617
55°	610	607	593	583	576	545
65°	412	410	399	389	385	409
75°	219	217	212	209	204	233
85°	57	58	58	57	55	63
90°	0	3	6	7	8	5
95°	12	34	313	142	83	12
105°	40	56	256	505	468	42
115°	71	86	206	444	522	70
125°	99	116	197	353	411	88
135°	116	140	196	296	342	90
145°	135	155	197	245	269	85
155°	154	166	192	217	226	71
165°	168	173	184	195	198	47
175°	175	175	176	179	178	17
180°	175	175	175	175	175	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1316.2	1313.1	1302.7	1313.1	1312.1
5°	1310.0	1307.9	1297.5	1306.9	1305.8
7.5°	1300.7	1298.6	1287.2	1296.5	1295.5
10°	1287.2	1285.1	1273.7	1282.0	1280.9
12.5°	1270.6	1266.4	1256.0	1262.2	1262.2
15°	1248.8	1245.6	1234.2	1239.4	1239.4
17.5°	1225.9	1220.7	1209.3	1215.5	1210.3
20°	1195.8	1193.7	1180.2	1187.5	1182.3
22.5°	1165.7	1161.6	1149.1	1153.3	1150.1
25°	1133.5	1128.3	1114.8	1116.9	1113.8
27.5°	1096.2	1093.0	1079.6	1080.6	1077.5
30°	1059.8	1056.7	1041.1	1039.1	1036.0
32.5°	1020.4	1015.2	1001.7	997.5	991.3
35°	978.9	974.7	960.2	955.0	946.7
37.5°	936.3	931.1	917.6	910.4	905.2
40°	892.7	887.5	873.0	863.6	860.5
42.5°	846.0	841.8	827.3	819.0	813.8
45°	801.4	797.2	784.8	772.3	769.2
47.5°	752.6	753.6	738.0	725.6	718.3
50°	705.9	702.7	690.3	676.8	669.5
52.5°	658.1	656.0	642.5	631.1	622.8
55°	610.4	607.2	592.7	583.4	576.1
57.5°	559.5	558.5	546.0	533.5	530.4
60°	511.7	507.6	496.2	485.8	478.5
62.5°	461.9	458.8	449.5	438.0	432.9
65°	412.1	410.0	398.6	389.3	385.1
67.5°	363.3	359.2	350.9	342.6	340.5
70°	317.6	312.4	303.1	296.9	292.7
72.5°	267.8	264.7	259.5	252.2	248.1
75°	219.0	216.9	211.8	208.6	204.5
77.5°	173.4	172.3	169.2	167.1	164.0
80°	130.8	130.8	128.7	127.7	125.6
82.5°	93.4	91.3	91.3	89.3	89.3
85°	57.1	58.1	58.1	57.1	55.0
87.5°	28.0	28.0	27.0	27.0	24.9
90°	0.4	3.2	5.7	7.4	8.1
92.5°	5.3	29.0	141.1	37.6	26.2
95°	11.7	34.4	313.3	142.2	83.1
97.5°	18.0	37.3	338.4	256.7	182.1
100°	24.8	42.8	319.3	362.8	275.8
102.5°	32.2	49.0	285.7	452.6	380.5
105°	40.0	55.8	256.4	504.8	468.5
107.5°	47.4	63.1	234.4	519.4	521.6
110°	55.5	70.7	219.9	505.4	545.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.6	78.3	211.5	476.3	542.8
115°	71.4	86.1	205.8	443.6	521.9
117.5°	78.5	94.0	202.6	413.9	490.4
120°	85.6	101.6	200.5	389.0	460.0
122.5°	93.0	109.1	198.7	369.0	433.2
125°	99.0	116.0	197.3	352.9	411.2
127.5°	104.0	122.7	196.6	339.1	391.1
130°	108.6	129.1	195.9	325.1	375.2
132.5°	112.1	134.7	195.9	310.1	359.3
135°	116.0	139.5	195.9	295.8	341.6
137.5°	120.9	144.0	196.2	280.8	323.2
140°	125.2	147.6	196.6	267.0	303.7
142.5°	130.1	151.1	197.0	255.1	285.7
145°	135.1	154.7	196.6	244.8	269.4
147.5°	140.4	157.9	195.9	236.0	254.9
150°	145.0	160.7	194.8	228.8	243.3
152.5°	149.9	163.6	193.4	222.6	234.1
155°	154.2	165.9	191.6	216.6	225.9
157.5°	158.1	168.1	189.9	210.9	218.5
160°	161.9	169.9	188.1	205.2	211.1
162.5°	165.1	171.6	186.0	200.1	204.4
165°	168.3	172.9	183.9	195.0	198.0
167.5°	170.4	173.6	181.7	190.2	192.0
170°	172.6	174.5	180.0	185.6	186.7
172.5°	174.0	174.8	177.9	181.9	181.7
175°	175.0	175.0	176.4	178.6	177.9
177.5°	175.7	175.0	175.4	176.4	175.4
180°	175.4	175.4	175.4	175.4	175.4

(END OF REPORT)