

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: P1028315

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028315
REPORT IS A COMBINATION OF REPORTS P1002587 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-F
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

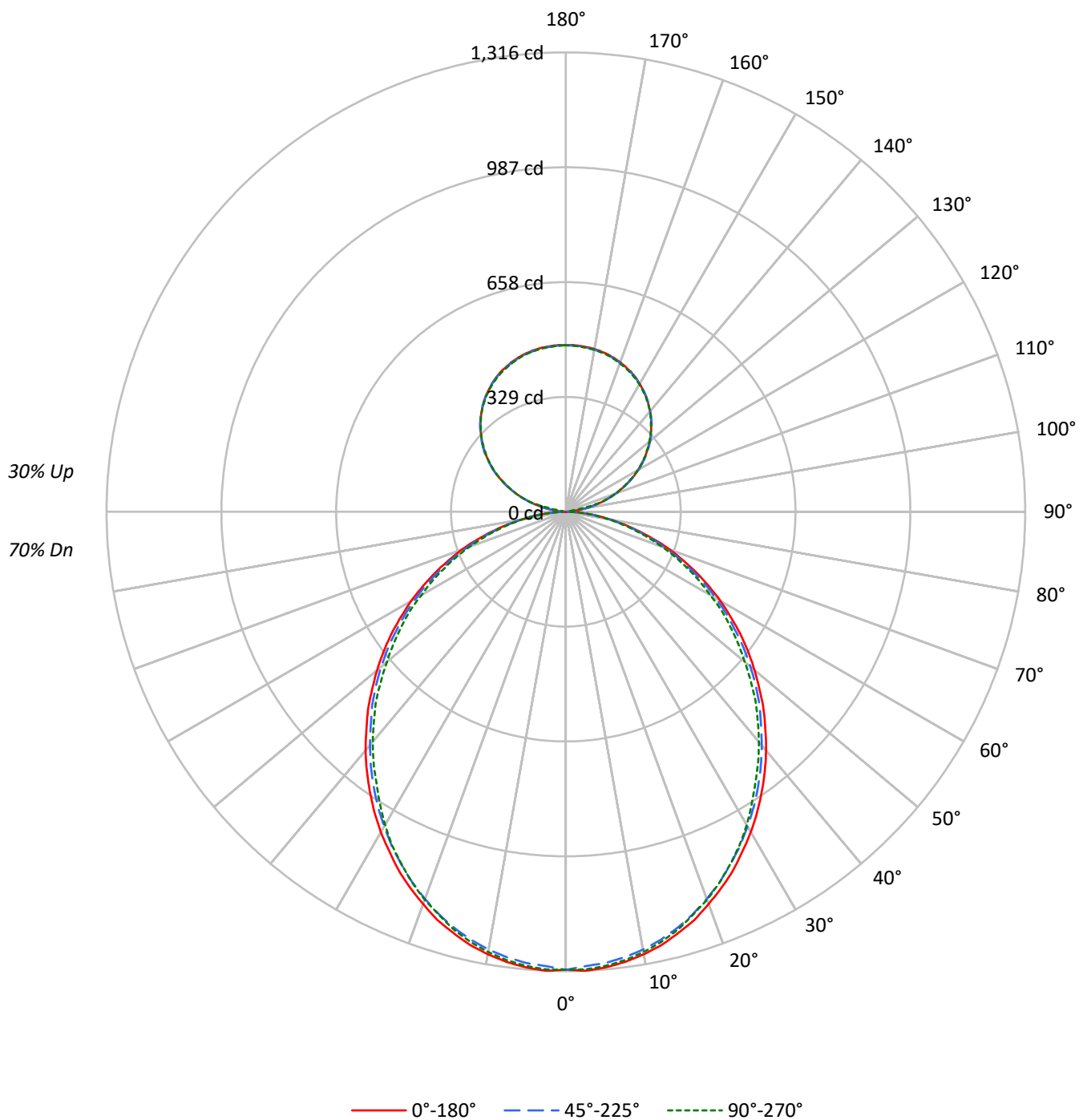
Lumens per Lamp: N/A
Luminaire Lumens: 4881.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
Input Voltage (V):
Input Current (A_{in}): 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	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	98	94	90	96	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	85	79	74	88	81	75	70	73	68	64	65	61	58	58	55	53	49
3	85	75	67	61	80	71	64	59	64	59	54	57	53	49	51	48	45	42
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	46	42	39	36
5	71	59	51	45	67	56	49	43	51	45	40	46	41	37	41	37	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	37	33	30	27
7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	34	30	26	24
8	57	44	36	30	54	42	35	29	38	32	27	35	29	26	31	27	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	19
10	50	37	30	25	47	35	29	24	32	26	22	30	25	21	27	23	20	18

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	2.5
10°-20°	349.7	7.2
20°-30°	516.3	10.6
30°-40°	602.4	12.3
40°-50°	605.0	12.4
50°-60°	531.1	10.9
60°-70°	395.6	8.1
70°-80°	225.9	4.6
80°-90°	65.9	1.4
90°-100°	16.2	0.3
100°-110°	107.7	2.2
110°-120°	193.9	4.0
120°-130°	248.8	5.1
130°-140°	267.6	5.5
140°-150°	251.2	5.1
150°-160°	203.2	4.2
160°-170°	131.4	2.7
170°-180°	45.3	0.9
0°-30°	989.8	20.3
0°-40°	1592.2	32.6
0°-60°	2728.3	55.9
0°-90°	3415.7	70.0
90°-120°	317.7	6.5
90°-150°	1085.4	22.2
90°-180°	1465.0	30.0
0°-180°	4881.0	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°	20	19	6	7	7	25
105°	104	105	105	105	105	110
115°	195	197	197	196	194	194
125°	278	280	280	279	278	248
135°	346	348	348	347	345	267
145°	401	402	402	402	400	251
155°	442	440	441	442	439	204
165°	466	464	465	467	464	132
175°	477	475	475	478	475	45
180°	477	477	477	477	477	

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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	8.5
92.5°	6.7	3.5	5.7	7.4	7.8
95°	20.2	19.1	5.7	7.4	7.4
97.5°	37.8	40.0	6.4	7.1	7.4
100°	59.1	60.1	61.5	8.8	7.4
102.5°	80.6	82.0	82.7	83.5	53.7
105°	104.0	105.4	105.4	105.4	105.0
107.5°	128.0	128.0	128.7	129.1	127.7
110°	151.3	151.3	152.1	151.0	151.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.3	174.3	174.7	173.3	172.6
115°	195.2	197.0	197.3	195.9	193.8
117.5°	218.2	218.2	219.6	217.5	216.8
120°	239.4	239.0	240.1	239.4	237.6
122.5°	258.1	259.9	260.3	259.5	257.4
125°	277.6	280.1	280.1	278.6	277.6
127.5°	296.3	298.1	297.7	297.0	294.2
130°	313.3	315.1	315.4	314.4	312.6
132.5°	330.3	332.4	331.3	331.3	329.6
135°	346.2	348.3	347.6	346.9	344.8
137.5°	361.0	363.2	362.4	362.4	360.7
140°	375.5	376.2	375.9	376.6	374.5
142.5°	388.6	389.0	389.7	389.7	387.6
145°	401.3	402.1	402.1	402.4	400.3
147.5°	412.7	412.7	413.0	413.4	410.9
150°	423.3	422.6	423.3	424.0	421.1
152.5°	433.5	431.8	432.5	433.2	430.7
155°	442.0	439.9	440.6	441.7	438.8
157.5°	448.7	447.7	447.7	448.7	445.9
160°	455.8	453.7	454.0	455.4	452.6
162.5°	461.5	459.3	459.7	461.8	458.6
165°	466.4	464.3	464.6	466.8	463.9
167.5°	470.3	468.2	468.5	471.0	467.8
170°	473.5	471.0	471.4	474.2	471.0
172.5°	475.6	473.1	473.8	476.3	473.1
175°	477.0	474.9	475.2	478.1	474.9
177.5°	478.1	476.0	476.3	478.8	476.0
180°	477.0	477.0	477.0	477.0	477.0

(END OF REPORT)