

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: P1028223

Luminaire Tested: S125DIP-B850D1090UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028223
REPORT IS A COMBINATION OF REPORTS P1002465 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

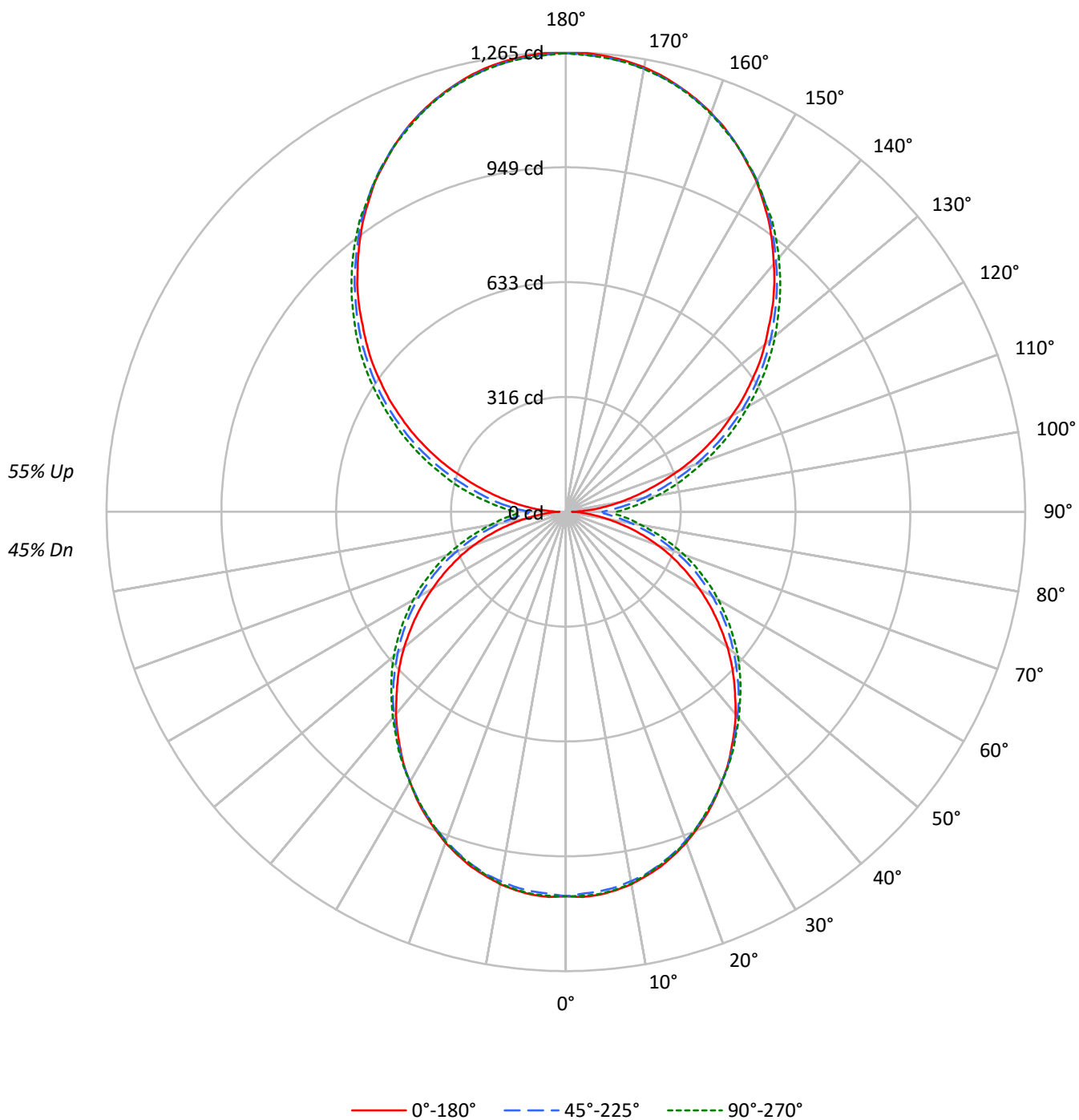
Lumens per Lamp: N/A
Luminaire Lumens: 6806.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	96	91	87	84	88	84	80	77	70	67	65	57	55	53	45	44	42
2	87	79	73	68	80	73	67	63	61	57	53	49	46	44	39	37	35
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	30
4	72	61	53	47	66	57	49	44	47	42	38	39	35	31	31	28	25
5	66	55	46	40	61	50	43	38	42	37	32	35	30	27	27	24	22
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	25	22	19
7	56	44	36	30	52	41	34	28	34	29	25	28	24	21	23	19	17
8	52	40	32	27	48	37	30	25	31	26	22	26	22	18	21	18	15
9	49	36	29	24	45	34	27	22	29	23	19	24	20	17	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6784	6784	6784
5°	6795	6642	6658
10°	6744	6507	6488
15°	6662	6348	6278
20°	6551	6158	6071
25°	6420	5956	5819
30°	6261	5735	5590
35°	6112	5531	5379
40°	5961	5317	5167
45°	5790	5131	4976
50°	5627	4929	4804
55°	5430	4737	4603
60°	5215	4517	4398
65°	4989	4286	4167
70°	4731	3977	3926
75°	4325	3670	3633
80°	3791	3298	3308
85°	3265	3003	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.5
10°-20°	284.4	4.2
20°-30°	422.9	6.2
30°-40°	500.9	7.4
40°-50°	517.8	7.6
50°-60°	477.0	7.0
60°-70°	385.6	5.7
70°-80°	258.0	3.8
80°-90°	135.3	2.0
90°-100°	159.1	2.3
100°-110°	304.8	4.5
110°-120°	460.1	6.8
120°-130°	577.9	8.5
130°-140°	633.3	9.3
140°-150°	613.5	9.0
150°-160°	513.8	7.5
160°-170°	341.6	5.0
170°-180°	119.5	1.8
0°-30°	807.6	11.9
0°-40°	1308.5	19.2
0°-60°	2303.4	33.8
0°-90°	3082.4	45.3
90°-120°	924.0	13.6
90°-150°	2748.7	40.4
90°-180°	3724.0	54.7
0°-180°	6806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1059	1057	1050	1058	1057	100
15°	1011	1012	1005	1011	1007	285
25°	919	922	916	920	914	423
35°	795	802	799	802	802	498
45°	655	666	672	679	680	505
55°	504	520	537	548	552	450
65°	347	371	396	411	415	344
75°	191	218	251	272	277	202
85°	57	91	128	150	159	60
90°	18	59	101	130	140	16
95°	77	106	152	181	190	77
105°	233	255	292	319	329	249
115°	430	441	470	488	493	425
125°	622	627	649	664	668	557
135°	806	811	819	832	834	621
145°	975	978	981	986	987	609
155°	1114	1114	1115	1119	1114	513
165°	1212	1210	1211	1214	1209	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1061.9	1059.8	1052.6	1059.8	1058.8
5°	1058.8	1056.7	1049.5	1057.8	1056.7
7.5°	1051.5	1050.5	1043.2	1050.5	1049.5
10°	1041.2	1041.2	1032.9	1040.1	1039.1
12.5°	1026.6	1027.7	1021.4	1026.6	1023.5
15°	1011.1	1012.1	1004.8	1011.1	1006.9
17.5°	991.3	993.4	986.1	991.3	988.2
20°	969.5	971.6	964.3	967.5	967.5
22.5°	944.6	948.8	940.5	944.6	941.5
25°	918.7	921.8	915.6	919.7	914.5
27.5°	890.6	894.8	887.5	890.6	888.6
30°	858.5	864.7	858.5	860.5	859.5
32.5°	829.4	834.6	830.4	832.5	831.5
35°	795.1	802.4	799.3	802.4	802.4
37.5°	761.9	768.2	767.1	771.3	770.2
40°	727.7	736.0	734.9	739.1	741.2
42.5°	690.3	701.7	704.8	710.0	710.0
45°	655.0	666.4	671.6	678.9	679.9
47.5°	618.7	629.1	637.4	647.7	649.8
50°	581.3	592.7	604.1	615.6	618.7
52.5°	541.9	556.4	570.9	583.4	585.5
55°	503.5	520.1	536.7	548.1	552.2
57.5°	464.0	483.7	502.4	514.9	518.0
60°	424.6	445.3	466.1	481.7	484.8
62.5°	386.2	406.9	429.8	447.4	451.6
65°	346.7	370.6	395.5	411.1	415.2
67.5°	310.4	333.2	358.1	376.8	382.0
70°	269.9	293.8	320.8	340.5	346.7
72.5°	230.4	255.4	285.5	307.3	311.4
75°	191.0	218.0	251.2	272.0	277.2
77.5°	152.6	183.7	214.9	237.7	241.9
80°	117.3	148.4	183.7	206.6	210.7
82.5°	85.1	118.3	154.7	176.5	184.8
85°	57.1	91.3	127.7	150.5	158.8
87.5°	36.3	69.5	104.8	128.7	136.0
90°	17.6	58.6	100.8	129.6	139.9
92.5°	44.0	79.0	124.2	153.9	163.2
95°	77.4	106.3	151.5	181.1	190.4
97.5°	110.8	136.6	184.6	212.3	220.6
100°	149.0	170.8	216.7	247.4	255.7
102.5°	190.2	214.8	251.9	282.5	291.7
105°	233.3	255.0	291.9	318.6	328.8
107.5°	280.5	299.9	334.9	358.7	364.9
110°	329.6	346.9	379.0	401.6	407.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.7	392.0	423.9	443.6	448.9
115°	429.7	440.9	469.9	487.6	492.8
117.5°	479.8	486.0	513.9	532.5	535.8
120°	527.0	535.0	559.9	577.5	579.8
122.5°	577.1	579.1	604.8	620.4	623.8
125°	622.3	627.1	648.9	663.5	667.7
127.5°	671.3	673.2	691.8	706.4	710.7
130°	715.5	719.4	735.9	749.4	752.6
132.5°	758.7	767.6	777.0	790.5	791.7
135°	805.9	810.7	819.0	832.5	833.7
137.5°	850.1	854.9	861.1	874.5	873.7
140°	891.3	896.2	900.2	913.6	912.8
142.5°	933.5	936.4	940.4	950.7	949.9
145°	974.8	977.7	980.7	985.9	987.0
147.5°	1012.1	1015.1	1017.0	1022.1	1016.3
150°	1050.4	1049.4	1053.4	1053.4	1052.4
152.5°	1081.9	1083.8	1084.8	1087.8	1083.8
155°	1114.3	1114.3	1115.3	1119.2	1114.3
157.5°	1143.8	1141.8	1142.8	1146.7	1139.9
160°	1169.3	1166.4	1167.4	1171.3	1166.4
162.5°	1191.9	1190.0	1190.0	1194.9	1189.0
165°	1211.6	1209.6	1210.6	1214.5	1208.6
167.5°	1229.3	1225.3	1225.3	1231.2	1225.3
170°	1243.0	1239.1	1239.1	1245.0	1238.1
172.5°	1252.9	1248.9	1248.9	1254.8	1248.9
175°	1259.7	1255.8	1255.8	1261.7	1254.8
177.5°	1264.6	1260.7	1259.7	1265.6	1258.7
180°	1262.7	1262.7	1262.7	1262.7	1262.7

(END OF REPORT)