

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: P1028299

Luminaire Tested: S125DIP-B850D375UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028299
REPORT IS A COMBINATION OF REPORTS P1002571 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB30-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

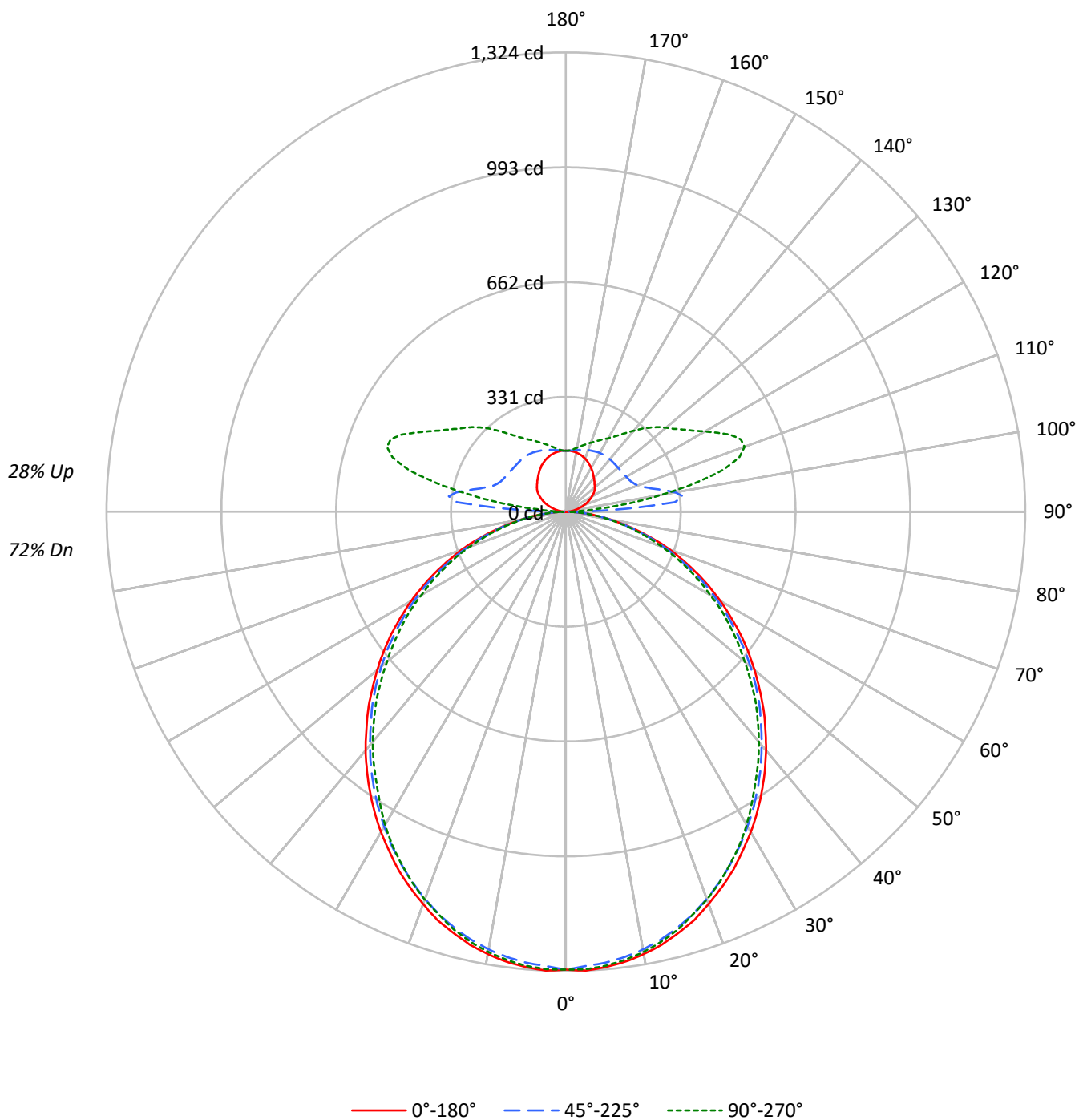
Lumens per Lamp: N/A
Luminaire Lumens: 4762.7 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	8456	8456	8456
5°	8456	8259	8275
10°	8386	8070	8045
15°	8276	7843	7774
20°	8127	7581	7462
25°	7968	7295	7128
30°	7774	6996	6777
35°	7569	6683	6384
40°	7356	6353	6034
45°	7126	6030	5662
50°	6872	5665	5229
55°	6621	5262	4831
60°	6322	4837	4367
65°	5964	4345	3888
70°	5601	3780	3334
75°	4988	3112	2696
80°	4253	2325	1983
85°	3282	1376	1092

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7126 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	2.6
10°-20°	351.8	7.4
20°-30°	519.3	10.9
30°-40°	605.9	12.7
40°-50°	608.5	12.8
50°-60°	534.2	11.2
60°-70°	397.9	8.4
70°-80°	227.2	4.8
80°-90°	66.3	1.4
90°-100°	132.8	2.8
100°-110°	275.8	5.8
110°-120°	257.6	5.4
120°-130°	208.4	4.4
130°-140°	167.5	3.5
140°-150°	126.4	2.7
150°-160°	89.0	1.9
160°-170°	52.5	1.1
170°-180°	17.1	0.4
0°-30°	995.6	20.9
0°-40°	1601.5	33.6
0°-60°	2744.3	57.6
0°-90°	3435.7	72.1
90°-120°	666.2	14.0
90°-150°	1168.5	24.5
90°-180°	1327.0	27.9
0°-180°	4762.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1318	1316	1305	1314	1314	125
15°	1256	1253	1241	1247	1247	354
25°	1140	1135	1121	1124	1120	525
35°	985	980	966	961	952	616
45°	806	802	789	777	774	621
55°	614	611	596	587	580	548
65°	414	412	401	392	387	411
75°	220	218	213	210	206	235
85°	57	58	58	57	55	63
90°	0	3	6	7	8	5
95°	12	35	315	143	84	12
105°	40	56	258	507	471	42
115°	72	87	207	446	525	71
125°	100	117	198	355	413	88
135°	117	140	197	297	343	90
145°	136	156	198	246	271	85
155°	155	167	193	218	227	71
165°	169	174	185	196	199	48
175°	176	176	177	180	179	17
180°	176	176	176	176	176	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.8	1319.8	1319.8	1319.8	1319.8
2.5°	1323.9	1320.8	1310.4	1320.8	1319.8
5°	1317.7	1315.6	1305.1	1314.5	1313.5
7.5°	1308.3	1306.2	1294.7	1304.1	1303.1
10°	1294.7	1292.6	1281.1	1289.5	1288.4
12.5°	1278.0	1273.8	1263.4	1269.6	1269.6
15°	1256.1	1252.9	1241.4	1246.7	1246.7
17.5°	1233.1	1227.9	1216.4	1222.7	1217.4
20°	1202.8	1200.7	1187.2	1194.5	1189.2
22.5°	1172.5	1168.4	1155.8	1160.0	1156.9
25°	1140.2	1134.9	1121.4	1123.5	1120.3
27.5°	1102.6	1099.4	1085.9	1086.9	1083.8
30°	1066.0	1062.9	1047.2	1045.2	1042.0
32.5°	1026.4	1021.1	1007.6	1003.4	997.1
35°	984.6	980.4	965.8	960.6	952.2
37.5°	941.8	936.6	923.0	915.7	910.5
40°	897.9	892.7	878.1	868.7	865.6
42.5°	851.0	846.8	832.2	823.8	818.6
45°	806.1	801.9	789.3	776.8	773.7
47.5°	757.0	758.0	742.4	729.8	722.5
50°	710.0	706.9	694.3	680.8	673.5
52.5°	662.0	659.9	646.3	634.8	626.5
55°	613.9	610.8	596.2	586.8	579.5
57.5°	562.8	561.7	549.2	536.7	533.5
60°	514.7	510.6	499.1	488.6	481.3
62.5°	464.6	461.5	452.1	440.6	435.4
65°	414.5	412.4	400.9	391.5	387.4
67.5°	365.4	361.3	352.9	344.6	342.5
70°	319.5	314.3	304.9	298.6	294.4
72.5°	269.4	266.2	261.0	253.7	249.5
75°	220.3	218.2	213.0	209.9	205.7
77.5°	174.4	173.3	170.2	168.1	165.0
80°	131.6	131.6	129.5	128.4	126.3
82.5°	94.0	91.9	91.9	89.8	89.8
85°	57.4	58.5	58.5	57.4	55.3
87.5°	28.2	28.2	27.1	27.1	25.1
90°	0.4	3.2	5.7	7.4	8.2
92.5°	5.3	29.2	141.8	37.8	26.3
95°	11.7	34.7	314.9	142.9	83.5
97.5°	18.1	37.5	340.2	258.0	183.1
100°	24.9	43.0	321.0	364.7	277.3
102.5°	32.3	49.2	287.2	455.0	382.5
105°	40.2	56.2	257.7	507.4	471.0
107.5°	47.6	63.4	235.7	522.2	524.3
110°	55.8	71.1	221.1	508.2	548.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.0	78.8	212.6	478.8	545.7
115°	71.8	86.6	206.9	446.0	524.7
117.5°	78.9	94.6	203.7	416.1	493.0
120°	86.0	102.2	201.6	391.0	462.5
122.5°	93.5	109.6	199.8	370.9	435.5
125°	99.5	116.6	198.4	354.8	413.4
127.5°	104.5	123.4	197.6	340.9	393.2
130°	109.1	129.8	196.9	326.8	377.2
132.5°	112.7	135.4	196.9	311.8	361.2
135°	116.6	140.2	196.9	297.4	343.4
137.5°	121.6	144.7	197.3	282.2	324.9
140°	125.8	148.4	197.6	268.4	305.4
142.5°	130.8	152.0	198.0	256.5	287.2
145°	135.8	155.5	197.6	246.2	270.9
147.5°	141.1	158.8	196.9	237.2	256.3
150°	145.7	161.6	195.9	230.0	244.6
152.5°	150.7	164.4	194.4	223.8	235.3
155°	155.0	166.7	192.7	217.8	227.1
157.5°	158.9	169.0	190.9	212.0	219.7
160°	162.8	170.8	189.1	206.4	212.2
162.5°	166.0	172.6	187.0	201.2	205.5
165°	169.2	173.9	184.8	196.0	199.1
167.5°	171.3	174.5	182.7	191.2	193.0
170°	173.5	175.4	180.9	186.6	187.7
172.5°	174.9	175.8	178.8	182.9	182.7
175°	176.0	176.0	177.4	179.5	178.8
177.5°	176.7	176.0	176.3	177.4	176.3
180°	176.3	176.3	176.3	176.3	176.3

(END OF REPORT)