

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: P1027047

Luminaire Tested: S125DIP-B850D850UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027047
REPORT IS A COMBINATION OF REPORTS P1002676 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D850UB2750-4F0-XX-W2A-D_4000K
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

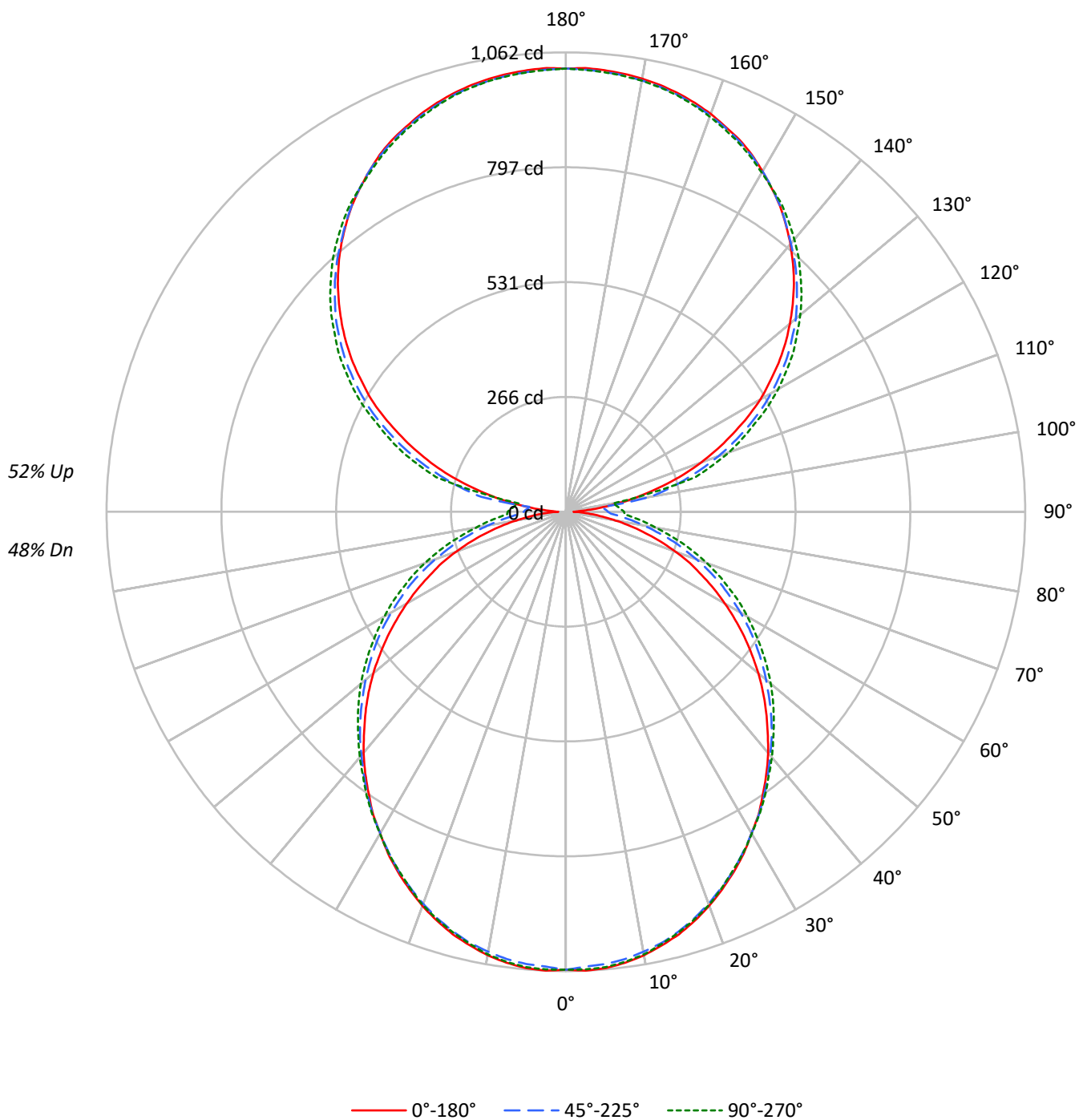
Lumens per Lamp: N/A
Luminaire Lumens: 6429.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48
1	97	92	88	84	89	85	81	78	71	68	66	58	57	55	47	46	44	39	39	39
2	88	80	74	68	80	74	68	63	62	58	54	51	48	45	41	39	37	32	32	32
3	80	70	62	56	73	65	58	53	54	49	45	45	41	38	36	33	31	27	27	27
4	73	62	54	47	67	57	50	44	48	43	38	40	36	32	32	29	27	23	23	23
5	67	55	47	41	61	51	43	38	43	37	33	36	31	28	29	26	23	20	20	20
6	61	49	41	35	56	46	38	33	39	33	29	32	28	24	26	23	20	17	17	17
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	24	20	18	15	15	15
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16	14	14	14
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14	12	12	12
10	46	34	26	21	42	31	25	20	27	21	18	23	18	15	19	15	13	11	11	11

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	1.6
10°-20°	284.4	4.4
20°-30°	422.9	6.6
30°-40°	500.9	7.8
40°-50°	517.8	8.1
50°-60°	477.0	7.4
60°-70°	385.6	6.0
70°-80°	258.0	4.0
80°-90°	134.9	2.1
90°-100°	109.9	1.7
100°-110°	286.6	4.5
110°-120°	453.5	7.1
120°-130°	555.5	8.6
130°-140°	584.1	9.1
140°-150°	541.4	8.4
150°-160°	436.5	6.8
160°-170°	282.3	4.4
170°-180°	97.3	1.5
0°-30°	807.6	12.6
0°-40°	1308.5	20.4
0°-60°	2303.4	35.8
0°-90°	3082.0	47.9
90°-120°	850.0	13.2
90°-150°	2531.0	39.4
90°-180°	3347.0	52.1
0°-180°	6429.0	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°	17	57	97	125	134	14
95°	57	82	88	115	122	64
105°	233	252	283	304	311	246
115°	426	437	464	480	482	422
125°	600	605	626	639	642	536
135°	746	749	755	767	768	575
145°	863	864	864	870	869	540
155°	949	945	946	949	943	437
165°	1002	997	998	1003	996	283
175°	1025	1020	1021	1027	1020	98
180°	1025	1025	1025	1025	1025	

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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°	17.4	56.6	97.3	125.0	134.5
92.5°	28.9	52.2	93.2	119.8	127.8
95°	56.8	81.5	88.0	114.6	121.9
97.5°	93.8	123.2	85.3	108.6	116.7
100°	138.2	162.3	198.6	107.2	110.5
102.5°	183.6	206.3	240.0	262.3	204.8
105°	232.6	252.3	283.4	304.2	310.7
107.5°	283.3	297.8	329.4	350.9	354.1
110°	332.4	344.8	375.4	392.8	400.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	379.5	391.1	419.8	435.5	441.3
115°	425.5	436.6	464.3	480.0	481.6
117.5°	473.8	479.0	508.0	521.1	526.8
120°	519.4	521.8	547.9	564.0	566.5
122.5°	558.7	563.5	587.0	602.1	603.9
125°	600.5	604.7	625.5	639.0	642.0
127.5°	639.6	642.4	659.2	673.3	673.5
130°	676.1	678.9	694.1	706.3	707.7
132.5°	711.5	716.1	724.2	738.7	739.0
135°	745.7	749.2	754.9	766.9	767.6
137.5°	777.6	781.1	783.7	796.1	796.5
140°	807.6	809.2	809.5	822.4	822.0
142.5°	835.8	835.5	837.0	846.3	846.0
145°	863.1	863.6	863.6	869.6	869.1
147.5°	886.4	886.4	887.2	890.0	886.8
150°	909.2	907.7	909.2	910.7	905.6
152.5°	931.2	927.4	928.9	930.5	925.1
155°	949.4	944.9	946.4	948.7	942.6
157.5°	963.9	961.6	961.6	963.9	957.8
160°	979.1	974.5	975.3	978.3	972.2
162.5°	991.2	986.7	987.4	992.0	985.1
165°	1001.9	997.3	998.1	1002.6	996.5
167.5°	1010.2	1005.7	1006.4	1011.7	1004.9
170°	1017.0	1011.7	1012.5	1018.6	1011.7
172.5°	1021.6	1016.3	1017.8	1023.1	1016.3
175°	1024.6	1020.1	1020.8	1026.9	1020.1
177.5°	1026.9	1022.4	1023.1	1028.4	1022.4
180°	1024.6	1024.6	1024.6	1024.6	1024.6

(END OF REPORT)